

BAR CODE MEDICATION ADMINISTRATION (BCMA)

BCMA Backup System (BCBU) INSTALLATION GUIDE

PSB*2*17

Version 2.0 August 2003

Acknowledgments:

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Mr. Felix Desarno and Mr. Naeem Mian of the New Jersey Health Care System. The Bar Code Medication Administration Backup System (BCBU) has been based on their original conceptual model and retains many of the ideas implemented in the Class III plan. Their hard work and determination has led the way for us to provide all VA Medical Centers with a viable BCMA Contingency Plan.

Mr. John Clemens of VA Medical Center San Francisco, California. His knowledge of the VISTA HL7 package and work on the security portion of the Bar Code Medication Administration Backup System (BCBU) made it possible for the Class I acceptance of the package.

Revision History

The table below lists changes made since the initial release of this manual. Update an existing manual with the Change Pages document or print out the entire updated manual.

Note: Some pages in the Change Pages document are unchanged, but provided for two-sided copying only. Only changed pages include the patch number and revision date in the page footer.

Date	Revised Pages	Patch Number	Description
08/03			Original Released Bar Code Medication Administration Backup System (BCBU) Installation Guide.

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Benefits of BCMA PSB*2*17

The Veterans Health Information Systems and Architecture (VISTA) Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 software will provide a Class I solution to the BCMA Contingency IRA #20020403. This plan reflects the intent of VHA Directive #6210, The Automated Information Systems (AIS) Security, which states that all facilities are responsible for the development, maintenance, and annual testing of individual AIS contingency. This software maintains a current copy on the designated workstation, of all the inpatient pharmacy activities including the inpatient medication orders, medication administration and allergies, that are included on a Pharmacy Medication Administration Record (MAR).

The Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 will interface with the BCMA VISTA product to provide a real time backup of all inpatient medication activities on a designated workstation(s). Designated workstation(s) will contain current information regarding inpatient medication orders (Unit Dose and IV), medication administration record (MAR), medication administration history (MAH) and patient allergies. Workstation(s) are updated using the VA Health Level (HL7) package. These workstation(s) are available for use according to local policies concerning VISTA, BCMA or network outages.

Benefits of This Guide

The Veterans Health Information Systems and Architecture (VISTA) Bar Code Medication Administration Backup System (BCBU) Installation for patch PSB*2*17 provides detailed instructions required for installing and implementing this new software. Additional manuals are available with instructions for installing and implementing the new software on either a Linux or Cachè workstation environment.

Our Target Audience

This guide was developed for the following individuals, who are responsible for the installation, maintenance, support and use of the package.

Information Resources Management (IRM)
Clinical Application Coordinator (CAC) – called
Applications Package Coordinator (ADPAC) at some
sites

National VISTA Support (NVS)
Independent Verification and Validation (IV&V)

Other Sources of Information

Bookmark these sites for future reference.

Refer to the Web sites listed below when you want to receive more background and technical information about BCMA V.2.0.

Background/Technical Information

From your Intranet, enter http://vaww.VISTA.med.va.gov/bcma in the Address field to access the BCMA Main Web page. The Installation Guide is available in MS Word (.doc) format and the Portable Document Finder (.PDF).

This Manual Includes

Security Information: This section contains information regarding the mail group, alerts, and file security associated with the Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 software.

Pre-Installation Information: This section provides information needed prior to installing the Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 software.

Installation Information: This section contains instructions and examples of the Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 software.

Technical Information: This section provides information on protocols involved in the Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 software.

Conventions Used in This Guide

Before installing patch PSB*2*17, review this section to learn the many conventions used throughout this guide.

Keyboard Responses: Keys provided in **boldface**, within the steps, help you quickly identify what to press on your keyboard to perform an action. See the examples provided below.

- ➤ Within the Steps: At the "Select Kernel Installation & Distribution System Option" prompt, type INSTALL, and then press ENTER.
- ➤ Within Screen Captures: Text in boldface, centered between arrows on

screen captures, identifies the key you must press for the system to capture your response or to move the cursor to the next field. See the following example.

DEVICE FOR QUEUED JOB OUTPUT: <Enter>

Mouse Responses: Buttons provided in **boldface**, within the steps, indicate what you should click on your computer screen using the mouse. For example, when you see NEXT, YES/NO, or OK in the steps, click the appropriate button on your computer screen.

User Responses: Information presented in **boldface**, within steps or shaded screen captures, indicate what you should "type" (enter) onto your computer screen. See the examples provided below.

- ➤ Within the Steps: At the "Select OPTION NAME" prompt, type XPD MAIN and then press ENTER.
- **Within Screen Captures**: See the following example.

RESCHEDULING FREQUENCY: 1M

Screen Captures: Provide "shaded" examples of what you will see on your computer screen, and possible user responses.

Notes: Provided within the steps, describe exceptions or special cases about the information presented. They reflect the experience of our Staff, Developers, and Testers.

Menu Options: When provided in *italics*, identifies a menu option. When provided in **boldface**, ALL CAPS, identifies the letters that you should type onto your computer screen, before pressing **ENTER**. The system then goes directly to the menu option. (**Note:** The letters do *not* have to be entered as capital letters, even though they are provided within the steps in this format.) See the examples provided below.

- ➤ **Italicized:** Use the Kernel *First Line Routine Print* option to print a list containing the first line of every PSB routine.
- Capitalized: At the "TaskMan Management Option:" prompt, type Schedule/Unscheduled Options, and then press ENTER.

Locating Detailed Listings

You can obtain and print listings about patch PSB*2*17 routines, and Data Dictionaries using the information provided below.

Routines

Use the Kernel routine XINDEX to produce detailed listings of routines. Use the Kernel First Line Routine Print option to print a list containing the first line of every ALPB routine.

Data Dictionaries

The Data Dictionaries (DDs) are included in the on-line documentation for this software application. You can use the VA FileMan List File Attributes option, under Data Dictionary Utilities option, to print the Dictionaries. Journaling is not recommended for the ALPB global.

Interface Software

The interface software is HL7. This will transmit the pharmacy data to the designated workstation.

Alerts

The mail group, PSB BCBU ERRORS, will receive all alerts.

BCMA Menus

Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 software exports two main menus. The options for each menu are listed in this section.

BCMA Backup System (Wrkstn)

[PSB BCBU WRKSTN MAIN]

BCMA Backup System (VISTA)

[PSB BCBU VISTA MAIN]

BCMA Backup System (Wrkstn)

This menu includes the following options: List/Display Orders

Print MAR for All Wards
Print MAR for Selected Patient
Print MAR for Selected Ward
Print Blank MAR for Selected Patient
List of Wards in BCMA Backup File
BCMA Backup System Management Menu

BCMA Backup System Error Log

BCMA Backup System (VISTA)

This menu includes the following options:

Associate Backup Workstations with a Division

Default Workstation Initialize

Divisional Worstation Initialize

Initialize a Backup Workstation with BCMA Users

Single Patient Init

Security Information

Mail Group The PSB BCBU Errors Mail Group is used to notify responsible

users of potential problems with sending information to the Contingency Workstation(s). Members of this group should include the staff that monitors the BCMA Backup System.

Remote Systems The workstation where the software resides is the only remote

system that will receive any data.

Archiving/Purging The product purges itself and only keeps active inpatient data.

The journal files are flipped and purged nightly so disk space is

not consumed by journaling.

Contingency Planning This contingency plan software can be used if there is a VISTA

outage. The sites can use the data stored on the workstations

using the outputs on the menu supplied.

Menus There are two menus for use with this package, BCMA Backup

System (Wrkstn) and BCMA Backup System (VISTA). The BCMA Backup System Management Menu is under the first

menu and requires a Security Key as described below.

Security Keys The BCMA Backup System Management Menu is secured by the

security key, PSB BUMGR and MUST be assigned to the

designated IRM personnel who currently manages the system for total access to the Bar Code Medication Administration Backup

System patch (BCBU) PSB*2*17.

References Kernel Systems Manual V 8.0

Kernel Toolkit V 7.3 VA FileMan V 22.0

MailMan V 8.0

Health Level Seven (HL7) V 1.6

Recommended Users

Information Resource Management (IRM) Staff is recommended for installing, implementing and supporting the Bar Code Medication Administration Backup System (BCBU) PSB*2*17. IRM, Pharmacy and Nursing staff must coordinate the implementation of the setup tasks after the package is installed.

VISTA Operating System and Performance Capacity

VISTA Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 currently runs on the standard hardware platforms used by the Department of Veterans Affairs Health Care System facilities. These hardware platforms consist of standard or upgraded Alpha 4100, ES40 or ES45 clusters, and run either DSM on VMS, Cache/VMS, Cache/NT or CacheXP. There are no significant changes in the performance capacity of the VISTA operating system once the VISTA Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 has been installed. The software application should not create any appreciable global growth or network transmission problems. There are no memory constraints.

Central Processing Unit (CPU) Requirements

The following workstation configuration is recommended for installing and running the **V***ISTA* Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17.

Sites previously using the New Jersey Class III package should be able to use current workstations and Caché license.

Hardware

1-2 Ghz CPU

256-512 Mb RAM

20 Gb hard drive

Monitor

Printer

Software

Microsoft Windows NT, Windows 2000 or Windows 98 with Intersystems Cache 4.1.4 (3.2.1) 20 user License

or

RedHat Linux 8.0 with Greystone GT.M

Test Sites

VISTA BCBU PSB*2*17 software was tested at the following VA Sites and platforms prior to being released.

Bay Pines VA Medical Center, Florida

New Jersey Health Care System

San Francisco VA Medical Center, California

Connecticutt Health Care System – West Haven

VA Heartland West – VISN 15 Kansas City, Missouri

VA Heartland East – VISN 15 St. Louis, Missouri

Bath VA Medical Center, New York

Fayetteville VA Medical Center, North Carolina

Martinez VA Medical Center, California

Miami VA Medical Center, Florida

Dublin VA Medical Center, Georgia

Minimum Required Packages

Before installing BCBU PSB*2*17 make sure that your VISTA system includes the following Department of Veterans Affairs (VA) software packages and versions (those listed or higher).

Package	Minimum Version Needed
Kernel	8.0
VA FileMan	22.0
VA MailMan	8.0
Health Level Seven (HL7)	1.6
Pharmacy Inpatient Medications	5.0
Bar Code Med Admin (BCMA)	2.0

Installation Time Estimates

IMPORTANT:

You should install and test BCBU PSB*2*17 in your test accounts BEFORE installing in your production accounts.

VISTA Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 installation time is less than 2 minutes during off peak hours. The time for workstation setup is approximately 30 minutes

Required Patches

Before installing PSB*2*17, make sure that the following released patches are installed.

Inpatient Medications V5.0 PSJ*5*102

Bar Code Medication Administration V2.0 PSB*2*18 PSB*2*6

Health Level Seven V1.6 HL*1.6*96

VISTA Kernel XU*8.0*313

Users on the System

Users may remain on the system; however, the **V**IST**A** Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 installation should be done during off peak hours when minimal Pharmacy activity is occurring.

Options Out of Order

The options, INPATIENT ORDER ENTRY [PSJ OE] and NON-VERIFIED/PENDING ORDERS [PSJU VBW] are to be placed out of order during installation.

Namespace

VISTA Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 routine namespace is ALPB. The options/protocols/templates/parameters and keys use the PSB namespace. Files are distributed under the PSB numberspace, but use ALPB global namespace..

Data Dictionary Changes

There are no changes made to the Data Dictionaries, but two new files have been added. These files are located on both the workstation and the **V***IST***A** server, but are only populated on the workstation.

^ALPB(53.7, BCMA Backup Data

^ALPB(53.71, BCMA Backup Parameters

Journaling is not recommended for the ALPB global.

Resource Requirements

This section summarizes the (approximate) number of resources required to install BCMA V. 2.0.

Routines 26

Globals 1 (^ALPB)

Files 2 (53.7, 53.71)

^ALPB Size Backup data = 268,288 bytes

(131 blocks) per order

Note: Population of the ALPB global will only occur on the workstation, there is no global growth on the **V***ISTA* server. ALPB global size estimate was acquired by dividing the number of blocks consumed by the total number of orders in file 53.7. This results in the number of blocks per order which is multiplied by 2048, which is the number of bytes per block in Cache.

FTEE Support .2 FTEE Maintenance .2

Printers

Your site should provide dedicated printers for each of the contingency workstations, which would allow printing of the MAR or MAH if the network was down. The printer needs to have the capability to print 132 characters per line.

Routines Installed

Review the listing below to learn the routines installed on your site's **V***ISTA* Server during the installation of patch PSB*2*17. The first line of each routine briefly describes its general function.

NOTE: You can use the Kernel First Line Routine Print option to print a list containing the first line of each ALPB routines.

BCMA PSB*2*17 Routines Installed on to VISTA Server

```
ALPBBK
           value = 6214167
ALPBCBU
           value = 1637834
ALPBELOG value = 6391337
ALPBFRM1 value = 9887439
ALPBFRM2 value = 8886579
ALPBFRMU value = 4053521
           value = 10423241
ALPBGEN
ALPBGEN1 value = 8591971
ALPBGEN2 value = 2679718
ALPBHL1
           value = 14492515
ALPBHL1U value = 12048992
ALPBIN
           value = 4105691
           value = 5809117
ALPBIND
ALPBINP
           value = 9416944
ALPBPALL value = 6006540
ALPBPARM value = 8937865
ALPBPPAT value = 5702674
ALPBPWRD value = 7025105
ALPBSP1
           value = 4545482
ALPBSP2
           value = 845669
ALPBSPAT
           value = 2404489
ALPBSWRD value = 5435921
ALPBUTL
           value = 9642997
           value = 6143314
ALPBUTL1
ALPBUTL2 value = 1954969
ALPBUTL3
           value = 3052806
PSBML
           value = 19151889
```

VISTA Server Installation Instructions

VISTA Bar Code Medication Administration Backup System (BCBU) patch PSB*2*17 distribution is by using VA MailMan. An example of this installation is found at the end of this install guide.

PC Workstation Database Initialization

Once the PC Workstation(s) have been setup and assigned an IP address, proceed with setting up the workstation link.

Create a link (node) for the PC workstation. This will be the regular transmission node. Call it "BC" and the ward. For example, if the ward is 2A the link could be called "BC 2A". Use the LINK EDIT [HL EDIT LOGIBAL LINK] option of the HL Interface menu. An example of this installation is found at the end of this install guide in the Sample PC Workstation Database Initialization Section..

MAR Reports

Various MAR reports are located at the end of this install guide under the Contingency PC Workstation Reports Section.

Please refer to two additional separate documents for additional Installation Information.

Bar Code Medication Administration Backup System (BCBU) InterSystems Cache Installation Setup Refer to "Bar Code Medication Administration Backup System (BCBU) InterSystems Cachè Installation Setup" guide for a systematic installation of Cachè install on a PC workstation.

Bar Code Medication Administration Backup System (BCBU) Linux Installation Setup Refer to "Bar Code Medication Administration Backup System (BCBU) Linux Installation Setup" for systematic installation of Linux on a PC workstation.

This manual also includes step-by-step installation of GT/M, **V***ISTA* and Bar Code Medication Administration Backup System (BCBU) on the Linux workstation.

Sample Installation

```
VISTA>D ^XUP
Setting up programmer environment
Terminal Type set to: C-VT100
Select Kernel Installation & Distribution System Option: Installation
         Load a Distribution
   2
         Verify Checksums in Transport Global
   3
         Print Transport Global
         Compare Transport Global to Current System
   4
   5
         Backup a Transport Global
   6
         Install Package(s)
         Restart Install of Package(s)
         Unload a Distribution
Select Installation Option: Install Package(s)
Select INSTALL NAME: PSB*2.0*17
                                     Loaded from Distribution
7/11/03@12:49:47
                 => PSB*2*17
This Distribution was loaded on Jul 11, 2003@12:49:47 with header of
  It consisted of the following Install(s):
    PSB*2.0*17
Checking Install for Package PSB*2.0*17
Install Questions for PSB*2.0*17
Incoming Files:
   53.7
          BCMA BACKUP DATA
   53.71
         BCMA BACKUP PARAMETERS (including data)
Incoming Mail Groups:
Enter the Coordinator for Mail Group 'PSB BCBU ERRORS': COWNIE, KEVIN P// <ENT>
         20092
                  COMPUTER SPECIALIST
                                          IRM
                                                  COMPUTER SPECIALIST
Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
Want KIDS to INHIBIT LOGONs during the install? YES// NO
Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// <ENT>
Enter options you wish to mark as 'Out Of Order': PSJ OE <ENT>
                                                               Inpatient
Order Entry
Enter options you wish to mark as 'Out Of Order': PSJU VBW <ENT> Non-
Verified/Pending Orders
Enter options you wish to mark as 'Out Of Order': <ENT>
```

Sample Installation

```
Enter protocols you wish to mark as 'Out Of Order': <ENT>
Delay Install (Minutes): (0-60): 0// <ENT>
Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.
DEVICE: HOME// <ENT> TCP/IP terminal
 Install Started for PSB*2.0*17:
               Jul 11, 2003@12:55:11
Build Distribution Date: Jul 10, 2003
 Installing Routines:
               Jul 11, 2003@12:55:12
 Installing Data Dictionaries:
               Jul 11, 2003@12:55:13
 Installing Data:
               Jul 11, 2003@12:55:13
 Installing PACKAGE COMPONENTS:
 Installing SECURITY KEY
 Installing MAIL GROUP
 Installing HL7 APPLICATION PARAMETER
 Installing PROTOCOL
 Located in the PSB (BAR CODE MED ADMIN) namespace.
  Located in the PSB (BAR CODE MED ADMIN) namespace.
 Located in the PSB (BAR CODE MED ADMIN) namespace.
 Located in the PSB (BAR CODE MED ADMIN) namespace.
 Located in the PSB (BAR CODE MED ADMIN) namespace.
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  Located in the PSB (BAR CODE MED ADMIN) namespace.
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 Located in the PSB (BAR CODE MED ADMIN) namespace.
  Located in the PSB (BAR CODE MED ADMIN) namespace.
  Located in the PSB (BAR CODE MED ADMIN) namespace.
 Located in the PSB (BAR CODE MED ADMIN) namespace.
 Located in the PSB (BAR CODE MED ADMIN) namespace.
                                   PSB*2.0*17
```

Sample Installation

```
Located in the PSB (BAR CODE MED ADMIN) namespace.
 Located in the PSB (BAR CODE MED ADMIN) namespace.
 Located in the PSB (BAR CODE MED ADMIN) namespace.
 Installing LIST TEMPLATE
 Installing OPTION
 Installing PARAMETER DEFINITION
               Jul 11, 2003@12:55:19
 Updating Routine file...
 Updating KIDS files...
 PSB*2.0*17 Installed.
              Jul 11, 2003@12:55:19
 Install Message sent #16266376
 100%
                        25
                                       50
                                                       75
Complete
Install Completed
```

When initializing the workstations, you add an entry at the HL Logical Link Node prompt for each pc workstation your site has. The name of each link should represent the actual workstation location. For example, if you have a workstation on Ward 2A, the name of the workstation should be BC 2A. Associating the name of the HL Logical Link Node with the ward where the workstation is located, will aid in locating specific workstations should a problem arise. Once you have initialized the workstation with the correct workstation location, you can update the workstation with the users from the **V***ISTA* system that have the [PSB GUI CONTEXT - USER] option. This initialization process will queue the activity and when complete send an alert.

On new installations, check the Parameter Value. The Parameter can be left off until the workstation is ready to be initialized. If the workstation is already running, **do not** turn the Parameter Value off. Use the 'General Parameter Tools' option to edit the parameter values.

```
XPAR MENU TOOLS General Parameter Tools
        List Values for a Selected Parameter
 LE List Values for a Selected Entity
LP List Values for a Selected Package
 LT List Values for a Selected Template
       Edit Parameter Values
 ET Edit Parameter Values with Template
EK Edit Parameter Definition Keyword
Select General Parameter Tools Option: ep Edit Parameter Values
                      --- Edit Parameter Values --
Select PARAMETER DEFINITION NAME: PSB BKUP ONLINE
----- Setting PSB BKUP ONLINE for Package: BAR CODE MED ADMIN -----
Value: YES//<ENTER>
Select PARAMETER DEFINITION NAME: PSB BKUP IPH
                                                   BCMA Contingency Active Pharm Order
------ Setting PSB BKUP IPH for Package: BAR CODE MED ADMIN ------
Value: 15// <ENTER>
Select PARAMETER DEFINITION NAME: PSB BKUP MEDLG BCMA Contingency MedLog DFT
----- Setting PSB BKUP MEDLG for Package: BAR CODE MED ADMIN ------
Value: 30// <ENTER>
```

Continue with the Workstation setup.

```
>D ^XUP

Setting up programmer environment

Terminal Type set to: C-VT100

Select OPTION NAME: HL MAIN MENU HL7 Main Menu
Systems Link Monitor
Filer and Link Management Options ...
Message Management Options ...
Interface Developer Options ...
Site Parameter Edit
```

```
Select HL7 Main Menu Option: INTERFACE Developer Options
       Application Edit
       Protocol Edit
  ΕP
       Link Edit
  EL
        Validate Interfaces
        Reports ...
Select Interface Developer Options Option: EL Link Edit
Select HL LOGICAL LINK NODE: BC 2A
INSTITUTION: ⟨ENTER⟩ ← leave blank
DOMAIN: <ENTER>← leave blank
AUTOSTART: Enabled
QUEUE SIZE: 10
LLP TYPE: TCP
TCP/IP SERVICE TYPE: CLIENT (SENDER)
  TCP/IP ADDRESS: (workstation IP address)
   TCP/IP PORT: (10000)
ACK TIMEOUT:10
                       RE-TRANSMISSION ATTEMPTS: 2
                     EXCEED RE-TRANSMIT ACTION: restart
READ TIMEOUT:10
BLOCK SIZE: 256
RETENTION: 120
                               UNI-DIRECTIONAL WAIT: ←leave blank
Save the link
```

Sign out and then sign back in by doing the following:

```
>D ^XUP
Setting up programmer environment
Terminal Type set to: C-VT100
Select OPTION NAME: PSB BCBU VISTA MAIN BCMA Backup System (VISTA)
PSB BCBU VISTA MAIN BCMA Backup System (VISTA)
   LNK Associate Backup Workstations with a Division
   DFT Default Workstation Initialize
    DIV Divisional Workstation Initialize
   USR Initialize a Backup Workstation with BCMA Users
    PAT Singe Patient Init
Select BCMA Backup System (VISTA) Option: LNK Associate Backup Workstations
with a Division
Do you want all backup data to go to the same group of
backup devices regardless of the patient's division?
Enter Yes or No: YES// <ENTER>
    Select one of the following:
                   Add a Logical Link
         D
                   Delete a Logical Link
```

```
OPERATION: ADD// <ENTER> Add a Logical Link
The following DEFAULT links are associated with this package:
BC KEVC
BC SID
BC KEVINK
BC SFVA
Select HL LOGICAL LINK: BC 2A ...Added
Select HL LOGICAL LINK: ?

LNK Associate Backup Workstations with a Division
DFT Default Workstation Initialize
DIV Divisional Workstation Initialize
USR Initialize a Backup Workstation with BCMA Users
PAT Singe Patient Init
```

NOTE: If you want to remove an HL7 Link from your system, make sure you use the LNK Associate Backup Workstation with a Division option to delete the logical link association prior to deleting the link in HL7. If this is not done, you will get undefined errors on the **V***ISTA* system. It is recommended that the Workstation Initialize be queued to run during non-peak hours. These inits may run for several hours depending on the parameter settings.

```
Select BCMA Backup System (VISTA) Option: DFT <RET> Default Workstation
Initialize
Include all workstations
Enter Yes or No? YES// NO
Select WorkStation Link: BC 2A
Selected Workstations
BC 2A
Select WorkStation Link:
Requested Start Time: NOW// <RET> (FEB 18, 2003@14:28:13)
2624847
   LNK Associate Backup Workstations with a Division
   DFT Default Workstation Initialize
   DIV Divisional Workstation Initialize
   USR Initialize a Backup Workstation with BCMA Users
   PAT Singe Patient Init
Select BCMA Backup System (VISTA) Option: USR Initialize a Backup Workstation
with BCMA Users
This option searches for users that hold the option, 'PSB GUI CONTEXT - USER'
and if they are active users, transmits the information to your BCMA Backup
Workstations.
NOTE that you must have completed the step of assigning workstations to either
a single default group or by division.
Do you wish to continue? YES// <ENTER>
```

```
Do you wish to queue this init? YES//<ENTER>
Requested Start Time: NOW// <ENTER> (FEB 20, 2003@17:17:02)
TASK #: 2625005
   LNK Associate Backup Workstations with a Division
   DFT Default Workstation Initialize
   DIV Divisional Workstation Initialize
   USR Initialize a Backup Workstation with BCMA Users
    PAT Singe Patient Init
You have PENDING ALERTS
Enter "VA to jump to VIEW ALERTS option
Select BCMA Backup System (VISTA) Option: "VA
1.I BCBU INIT Started Feb 20, 2003@17:17:04 and finished Feb 20, 2003@17:2
Select from 1 to 1
or enter ?, A, I, D, F, S, P, M, R, or ^ to exit: 1
Processed Alert Number 1
BCBU INIT Started Feb 20, 2003@17:17:04 and finished Feb 20, 2003@17:27:57.
556
```

Option Descriptions

```
PSB BCBU MANAGEMENT MENU
BCMA Backup System Management Menu
This Menu contains all Management option for the BCMA Contingency (Workstation
Menu)
ITEM: PSB BCBU ERROR LOG
TYPE: menu
PSB BCBU ERROR LOG
BCMA Backup System Error Log
This option is used to view the Error Log. (Workstation Menu)
TYPE: run routine
                           Routine:
                                        ALPBELOG
                   .....
PSB BCBU WRKSTN MAIN
This is the main menu for the BCMA Backup system -- the ward workstation
containing the BCMA backup/contingency data. (Workstation Menu)
TYPE: menu
ITEM: PSB BCBU SHOW PATIENT
ITEM: PSB BCBU PRINT MAR ALL
ITEM: PSB BCBU PRINT MAR PATIENT
ITEM: PSB BCBU PRINT MAR WARD
ITEM: PSB BCBU MANAGEMENT MENU
ITEM: PSB BCBU WARD LIST
ITEM: PSB BCBU PRINT BLK MAR
PSB BCBU PRINT MAR ALL
Print MAR for All Wards
This option prints a MAR report for all wards. (Workstation Menu)
TYPE: run routine
                           ROUTINE: ALPBPALL
PSB BCBU PRINT MAR PATIENT
Print MAR for Selected Patient
This option prints a MAR report by individual patients. (Workstation Menu)
TYPE: run routine
                      ROUTINE: ALPBPPAT
PSB BCBU PRINT MAR WARD
Print MAR for Selected Ward
This option prints a MAR report by individual wards. (Workstation Menu)
TYPE: run routine ROUTINE: ALPBPWRD
```

PSB BCBU SHOW PATIENT

Display Orders for Selected Patient

This option will display orders to the screen by individual patient.

(Workstation Menu)

TYPE: run routine ROUTINE: ALPBSPAT

PSB BCBU SHOW WARD

Display Orders for Selected Ward

This option will display orders to the screen by Ward. (Workstation Menu)

.....

TYPE: run routine ROUTINE: ALPBSWRD

PSB BCBU WARD LIST

List of Wards in BCMA Backup File

This option will display all the wards available on the workstation.

(Workstation Menu)

TYPE: run routine ROUTINE: WARDLIST^ALPBUTL

PSB BCBU PRINT BLK MAR

Print Blank Mar for Selected Patient

This option allows the user to select a patient from the BCMA contingency and print a blank 3 or 7 day MAR. The MAR will only contain patient

TYPE: run routine ROUTINE: ALPBBK

PSB BCBU VISTA MAIN

BCMA Backup System (VISTA)

This is the Primary Menu for the BCMA Backup Contingency. (VISTA Menu)

TYPE: menu

ITEM: PSB BCBU INIT WRKSTN DFT
ITEM: PSB BCBU INIT WRKSTN DIV
ITEM: PSB BCBU LINK ASSOCIATIONS

ITEM: PSB BCBU USER INIT

ITEM: PSB BCBU INIT SINGLE PT

PSB BCBU INIT WRKSTN DFT

Default Workstation Initialize

This option is used to initialize Workstations that are linked as default.

(VISTA Option)

TYPE: run routine ROUTINE: OPT^ALPBIND

PSB BCBU LINK ASSOCIATIONS

Associate Backup Workstations with a Division

For sites running the REAL-TIME BCMA BACKUP interface, use this option to

assign your backup workstations to specific divisions. If you are not a multidivisional site, associate all backup workstations with a single division.

When HL7 events occur, the division associated with the patient will be used to determine which workstations will get the message. (VISTA Menu)

TYPE: run routine ROUTINE: ALPBPARM

PSB BCBU INIT WRKSTN DIV

Divisional Workstation Initialize

This option is used to initialize Workstations that are linked by Division. (VISTA Option)

TYPE: run routine ROUTINE: OPT^ALPBIN

PSB BCBU USER INIT

Initialize a Backup Workstation with BCMA Users

This option searches the VISTA New Person file for authorized BCMA users and generates a version 2.4 HL7 message. Messages are addressed dynamically based on the parameter definitions for BCMA Backup using divisions or the default group.

TYPE: run routine ROUTINE: INIT^ALPBGEN2

PSB BCBU INIT SINGLE PT

Single Patient Init

This option will send inpatient orders to the BCMA Contingency workstation for a single patient.

TYPE: run routine ROUTINE: SNDPT^ALPBIND

PSB BCBU PRINT BLK MAR

Print Blank Mar for Selected Patient

This option allows the user to select a patient from the BCMA contingency and print a blank 3 or 7 day MAR. The MAR will only contain patient info.

TYPE: run routine ROUTINE: ALPBBK

HL7 Parameters

PSB BCBU CLIENT

ACTIVE/INACTIVE: ACTIVE

HL7 ENCODING CHARACTERS: ~|\&

PSB BCBU SERVER

ACTIVE/INACTIVE: ACTIVE

HL7 ENCODING CHARACTERS: ~|\&

PSB PMU RECV

ACTIVE/INACTIVE: ACTIVE COUNTRY CODE: USA

HL7 ENCODING CHARACTERS: ~&^\

HL7 FIELD SEPARATOR: |

PSB PMU SEND

ACTIVE/INACTIVE: ACTIVE COUNTRY CODE: USA

HL7 ENCODING CHARACTERS: ~&^\

HL7 FIELD SEPARATOR: |

HL7 Message Examples

Unit Dose Orders

```
PID^^488-36-5850~~^10748~2~M10^^AUGUSTA~JOHN~J^^19350517^M^^^^^^^^555112222
PV1^1^1^4E M-KC~SE403~3^^^^5468~BISMARK~CAPTAIN~A^^^^^^^^NSC VETERAN
ORC^XX^~OR^1U~PS^^DC~discontinued^^^^199709191028-0400^33~ATHENS,ROMAN PHARM
D^^7356~ALBANY, ALBERT^^^199709191028-0400^~~990RN~~~^^
RXO^~~~~99PSP^^^^^^^^^
RXE^&&2&~Q4H PRN&~~199709191028-0400~19970920120402-0400~~~^326.2485~OXYCODONE
HCL 5MG/ACETAMINOPHEN
       325MG TAB~99NDF~7106~OXYCODONE 5MG/ACETAMINOPHEN 325MG
TAB UD~99PSD^^^~~00~~99PSU^~~~~99PSF^^^^^^^^24133~BISMARK, SAMANTHA
       E~99NP^^^^^^^^~~~~~99PSU
RXR^~~~1~ORAL~99PSR^^^^
ZRX^^^^24133~BISMARK, SAMANTHA E~99NP^
PID^^488-36-
5850~~^10748~2~M10^^AUGUSTA~JOHN~J^^19350517^M^^^^^^^^^555112222
 PV1^1^1^4E M-KC~SE403~3^^^^5468~BISMARK~CAPTAIN~A^^^^^^^^NSC VETERAN
 ORC^XX^2425936~OR^15U~PS^^DC~discontinued^^^199802170206-0400^159~BOISE,
WILLIAM W^^14109~COLUMBIA, CHARLIE^^^199802170206-
       0400^~~99ORN~~~^^
RXO^~~~765~HEPARIN INJ,SOLN~99PSP^^^^^^^^^^
RXE^&&1&~Q12H&0600-1800~~199802170206-0400~19980217164826-0400~~~5000
UNITS^80.742~HEPARIN NA 10000UNT/ML INJ~99NDF~6847~HEPARIN NA
        10000 UNT/ML
INJ~99PSD^^^~~~43~UNT/ML~99PSU^~~~84~INJ,SOLN~99PSF^^^^^^^^24133~BISMARK,
SAMANTHA E~99NP^^^^^^^^10000^~~~43~UNT/ML~99PSU
RXR^~~~30~SUBCUTANEOUS~99PSR^^^^
ZRX^^^^24133~BISMARK, SAMANTHA E~99NP^
```

IV Orders

PID^^488-36-

```
5850~~^10748~2~M10^^AUGUSTA~JOHN~J^^19350517^M^^^^^^^555112222
PV1^1^1^4E M-KC~SE403~3^^^^5468~BISMARK~CAPTAIN~A^^^^^^^^^^NSC VETERAN
ORC^XX^8547404;1~OR^53V~PS^^CM~finished/verified by
pharmacist(active)^^^20021206135950-0400^24133~BISMARK, SAMANTHA
E^^24133~BISMARK, SAMANTHA E^^^200212061359-
        0400^~~990RN~~~^^
RXO^~~~1062~MULTIVITAMIN INJ,SOLN~99PSP^^^^^^^^^^^
RXE^~&~~200212061359-0400~200212071400-0400^^^^^^^^^^24133~BISMARK,
SAMANTHA E~99NP^^^^^^10^~~~ml/hr~PSU^^
NTE^21^L^I would like to enter these provider comments
RXC^A^~~~1062~MULTIVITAMIN~99PSP^10^~~~PSIV-1~ML~99OTH^^^^^^^^^^^^^^^^^
RXC^A^~~~688~FOLIC ACID~99PSP^2^~~~PSIV-4~MG~99OTH^^^^^^^^^^^^^^^^^
RXC^A^~~~1488~TRACE ELEMENTS~99PSP^2^~~~PSIV-1~ML~99OTH^^^^^^^^^^^^^^^^^
RXC^B^~~~490~DEXTROSE 5%/WATER~99PSP^1000^~~~PSIV-
1~ML~990TH^^^^^^^
ZRX^^^N^^24133~BISMARK, SAMANTHA E~99NP^IV
PID^^488-36-
5850~~^10748~2~M10^^AUGUSTA~JOHN~J^^19350517^M^^^^^^^^555112222
PV1^1^I^4E M-KC~SE403~3^^^5468~BISMARK~CAPTAIN~A^^^^^^^^^^NSC VETERAN
ORC^XX^8528561~OR^48V~PS^^CM~finished/verified by
pharmacist (active) ^^^2001041
        12336-0400^159~CHALK,PINK W^^16114~AUSTIN,JEFFREY^^^200104112336-
0400^~~990RN~~~^^
RXO^~~~282~CEFTRIAXONE INJ,SOLN~99PSP^^^^^^^^^^
RXE^~Q24H&06~~200104112336-0400~200104161400-0400^^^^^^^^^^^^^^24133~BISMARK,
SAMANTHA E~99NP^^^^^^NINFUSE OVER 30 MINUTES^^^
RXC^A^~~~282~CEFTRIAXONE~99PSP^1^~~~PSIV-5~GM~99OTH^^^^^^^^^^^^^^^^
RXC^B^~~~2254~ISO-OSMOTIC~99PSP^50^~~~PSIV-1~ML~99OTH^^^^^^^^^^^^^^^^^
RXR^~~~14~INTRAVENOUS~99PSR^^^~~~P~PIGGYBACK~99PSR^
ZRX^^^N^^24133~BISMARK, SAMANTHA E~99NP^
PID^^488-36-
5850~~^10748~2~M10^^AUGUSTA~JOHN~J^^19350517^M^^^^^^^^^555112222
PV1^1^1^4E M-KC~SE403~3^^^5468~BISMARK~CAPTAIN~A^^^^^^^^^^NSC VETERAN
ORC^XX^5997759~OR^46V~PS^^DC~discontinued^^^^200103201458-
0400^8124~WITT,DIM^^23714~JURGENSMEYER,JOHN JACOB C^^^200103201458-
        0000^~~990RN~~~^^
RXO^~~~1062~MULTIVITAMIN INJ,SOLN~99PSP^^^^^^^^^^
RXE^~&~~200103201458-0400~200103211037-0400^^^^^^^^^24133~BISMARK,
SAMANTHA E~99NP^^^^^^100^~~~ml/hr~PSU^^
NTE^21^L^TO STOP WHEN TAKING ADEQUATE ORALS
RXC^A^~~~1062~MULTIVITAMIN~99PSP^10^~~~PSIV-1~ML~99OTH^^^^^^^^^^^^^^^^^
RXC^A^~~~1456~THIAMINE~99PSP^100^~~~PSIV-4~MG~99OTH^^^^^^^^^^^^^^^^^
RXC^A^~~~688~FOLIC ACID~99PSP^1^~~~PSIV-4~MG~99OTH^^^^^^^^^^^^^^^^
RXC^A^~~~1371~SODIUM BICARBONATE~99PSP^50^~~~PSIV-
8~MEQ~990TH^^^^^^^^^^
RXC^B^~~~486~DEXTROSE 5%/0.45% NACL~99PSP^1000^~~~PSIV-
1~ML~99OTH^^^^^^^
ZRX^^^N^^24133~BISMARK, SAMANTHA E~99NP^IV
```

Med Log

PID^^488-36-

5850~~^10748~2~M10^^AUGUSTA~JOHN~J^^19350517^M^^^^^^555112222 PV1^1^1^4E M-KC~SE403~3^^^5468~BISMARK~CAPTAIN~A^^^^^^^^^^NSC VETERAN ORC^ML^^330U~PS^^G~GIVEN^^^20010414131522-0400^15454~KELLER,ANGELA L

Parameter Definitions

PSB BKUP DEFAULT

DISPLAY TEXT: Package-specific 'default' Logical Links

MULTIPLE VALUED: Yes INSTANCE TERM: Logical Link VALUE DATA TYPE: pointer

VALUE DOMAIN: 870

VALUE HELP: Enter the HL7 logical link

INSTANCE DATA TYPE: pointer

INSTANCE DOMAIN: 870

INSTANCE HELP: Enter the HL7 logical link

DESCRIPTION: This parameter is used by the BCMA Backup system to route messages to a "default" group of HL7 Logical Links that are associated with the BCMA package rather than individual divisions. When the default group is defined, all messages will be routed to this group rather than using division-based grouping under the following conditions:

- 1. If a call is made to the API, GET^ALPBPARM, and the division parameter is not present or null.
- 2. If a call is made to the API, GET^ALPBPARM, and the division specified has no logical links associated with it.

PRECEDENCE: .5

ENTITY FILE: PACKAGE

PSB BKUP MACHINES

DISPLAY TEXT: Division-specific Logical Links

MULTIPLE VALUED: Yes INSTANCE TERM: Logical Link VALUE DATA TYPE: Pointe VALUE DOMAIN: 870

VALUE HELP: Enter the HL7 Logical Link

INSTANCE DATA TYPE: pointer INSTANCE DOMAIN: 870

INSTANCE HELP: Enter the HL7 Logical Link

DESCRIPTION: This parameter defines the BCMA Backup Logical Links that may be

associated with a division when there are one or more divisions at a site.

PRECEDENCE: 1

ENTITY FILE: DIVISION

PSB BKUP ONLINE

DISPLAY TEXT: BCMA Contingency Online

VALUE DATA TYPE: yes/no

DESCRIPTION: This parameter is used by the BCMA Backup system to activate the Contingency software. If the value is set to NO then no HL7 messages will be sent to the

Workstation. This does not affect the workstation initialization option.

PRECEDENCE: 1

ENTITY FILE: PACKAGE

PSB BKUP IPH

DISPLAY TEXT: BCMA Contingency Active Pharm Order

VALUE DATA TYPE: numeric

DESCRIPTION: The BCMA Backup Contingency software uses this parameter. During the Workstation initialization process, this tells the process how many days of historic Inpatient Medication Orders to capture. It is based off the fact the order was active during that time.

PRECEDENCE: 1

ENTITY FILE: PACKAGE

PSB BKUP MEDLG

DISPLAY TEXT: BCMA Contingency MedLog DFT

VALUE DATA TYPE: numeric

DESCRIPTION: The BCMA Backup Contingency software uses this parameter. During the Workstation initialization process, this tells the process how many days of historic Med Log entries of Inpatient Medication Orders to capture.

PRECEDENCE: 1

ENTITY FILE: PACKAGE

List Templates

PSB ERROR LOG

TYPE OF LIST: PROTOCOL

RIGHT MARGIN: 80 TOP MARGIN: 4

BOTTOM MARGIN: 20 OK TO TRANSPORT?: OK USE CURSOR CONTROL: YES

PROTOCOL MENU: PSB ERROR LOG MENU

SCREEN TITLE: BCMAbu Error Log ALLOWABLE NUMBER OF ACTIONS: 1

AUTOMATIC DEFAULTS: YES

HIDDEN ACTION MENU: VALM IDDEN ACTIONS

ARRAY NAME: ^TMP("ALPBELOG",\$J)

EXIT CODE: D EXIT^ALPBELOG HEADER CODE: D HDR^ALPBELOG HELP CODE: D HELP^ALPBELOG ENTRY CODE: D INIT^ALPBELOG

PSB SELECT ORDERS

TYPE OF LIST: PROTOCOL

RIGHT MARGIN: 80 TOP MARGIN: 5

BOTTOM MARGIN: 19 OK TO TRANSPORT?: OK USE CURSOR CONTROL: YES

PROTOCOL MENU: PSB ORDERS MENU SCREEN TITLE: BCMAbu ACTIVE Orders List

ALLOWABLE NUMBER OF ACTIONS: 1

HIDDEN ACTION MENU: VALM HIDDEN ACTIONS

ARRAY NAME: ^TMP("ALPBORDS",\$J)

ITEM NAME: OrderNum

COLUMN: 2 WIDTH: 10

DISPLAY TEXT: Order No. ITEM NAME: OrderType

COLUMN: 22 WIDTH: 4

DISPLAY TEXT: Type ITEM NAME: Status

COLUMN: 14 WIDTH: 7

DISPLAY TEXT: Status ITEM NAME: Meds

COLUMN: 28 WIDTH: 45

DISPLAY TEXT: Medication(s) EXIT CODE: D EXIT^ALPBSP1 HEADER CODE: D HDR^ALPBSP1 HELP CODE: D HELP^ALPBSP1 ENTRY CODE: D INIT^ALPBSP1

PSB SELECT PATIENT

TYPE OF LIST: PROTOCOL

RIGHT MARGIN: 80 TOP MARGIN: 4

BOTTOM MARGIN: 15 OK TO TRANSPORT?: OK USE CURSOR CONTROL: YES

PROTOCOL MENU: PSB PATIENT MENU SCREEN TITLE: BCMAbu Patient List (All) ALLOWABLE NUMBER OF ACTIONS: 1

HIDDEN ACTION MENU: VALM HIDDEN ACTIONS

ARRAY NAME: ^TMP("ALPBPLIST",\$J)

ITEM NAME: Patient

COLUMN: 2 WIDTH: 30

DISPLAY TEXT: Patient

ITEM NAME: SSN COLUMN: 33

WIDTH: 9

DISPLAY TEXT: SSN ITEM NAME: WARD

COLUMN: 43 WIDTH: 15

DISPLAY TEXT: Ward ITEM NAME: ROOM

COLUMN: 62 WIDTH: 5

DISPLAY TEXT: Room ITEM NAME: BED

COLUMN: 72 WIDTH: 5

DISPLAY TEXT: Bed

EXIT CODE: D EXIT^ALPBSPAT HEADER CODE: D HDR^ALPBSPAT HELP CODE: D HELP^ALPBSPAT ENTRY CODE: D INIT^ALPBSPAT

PSB SHOW ORDERS

TYPE OF LIST: DISPLAY

RIGHT MARGIN: 80 TOP MARGIN: 5

BOTTOM MARGIN: 20 OK TO TRANSPORT?: OK USE CURSOR CONTROL: YES

SCREEN TITLE: BCMAbu Selected Order(s) ALLOWABLE NUMBER OF ACTIONS: 1

AUTOMATIC DEFAULTS: YES

HIDDEN ACTION MENU: VALM HIDDEN ACTIONS

ARRAY NAME: ^TMP("ALPBFORM",\$J)

EXIT CODE: D EXIT^ALPBSP2 HEADER CODE: D HDR^ALPBSP2 HELP CODE: D HELP^ALPBSP2 ENTRY CODE: D INIT^ALPBSP2

HL Communication Service Parameters

These parameters exist only on the workstations and is included in the .dat file.

Select HL COMMUNICATION SERVER PARAMETERS ONE: 1

ONE: 1 DOMAIN: BCMABU.MED.VA.GOV

DEFAULT PROCESSING ID: training INSTITUTION: SOFTWARE SERVICE DEFAULT NUMBER INCOMING FILERS: 2 DEFAULT NUMBER OUTGOING

FILERS: 2

PURGE COMPLETED MESSAGES: 2 PURGE AWAITING ACK MESSAGES: 2

PURGE ALL MESSAGES: 4

Select HL LOGICAL LINK NODE: LISTNER

NODE: LISTNER LLP TYPE: TCP

DEVICE TYPE: Single-threaded Server

AUTOSTART: Enabled SHUTDOWN LLP ?: NO

OUEUE SIZE: 10 RE-TRANSMISSION ATTEMPTS: 2

BLOCK SIZE: 256 READ TIMEOUT: 2

ACK TIMEOUT: 10 EXCEED RE-TRANSMIT ACTION: restart TCP/IP PORT: 10000 TCP/IP SERVICE TYPE: SINGLE LISTENER

PERSISTENT: NO RETENTION: 120

Files Associated with GT.M/Linux BCMA:

The following files are provided with the GT.M version of Bar Code Medication Administration Backup System (BCBU) and are unpacked from the bcma_files.tar.gz file into \$HOME of the BCMA manager account.

.bashrc – this is the BCMA manager's *\$HOME/.bashrc* file. This file defines GT.M related global variables, sets convenient aliases and sets terminal characteristics. This file may be edited but all GT.M variable and terminal definitions should be retained to guarantee the proper functioning of the GT.M database.

bcmabashrc – *install_bcma* creates a generic "bcma" Linux account tied to **V***IST***A**. *bcmabashrc* is renamed to */home/bcma/.bashrc* and is called with each "bcma" user login. The call to this file ties the user to **V***IST***A** and prevents access to the Linux or GT.M level as well as defining GT.M related global variables.

bcma.gld – this it the GT.M global directory file which defines the location of the BCMAbu database. *install_bcma* edits this file automatically to account for the directory structure specified by the installer. The GT.M database utility, GDE, accesses this file.

cronjrnclean – this file is used to generate the crontab procedure (found in /var/spool/tar/bcma_manager_name) which runs nightly to flip the GT.M journal file, remove old journal files and remove temporary GT.M process related files in the manager's \$HOME. This file is only used once during the BCMA install.

gcomp - run this file at your GT.M manager to recompile all M routines. At times, compiled objects may end up with the wrong user ownership (for example, if patches were installed and run as root). Run this script to correct such situations.

jrnclean – this file is called by /var/spool/tar/bcma_manager_name nightly at 1:00am to flip the GT.M journal file, remove old journal files and remove temporary GT.M process related files in the BCMA manager's \$HOME.

jrnoff - this file may be used to turn journaling off. Note that journaling is automatically enabled with every reboot of the system by *rc.local*.

jrnon – this file may be used to turn journaling on or flip the current journal file to a new one. It is called by *jrnclean*. Journal files are found in \$HOME/jrn of the bcma manager.

netmail_start – this file is called by *rc.local* during runlevel 5-system startup to start network mail on port 25. If netmail needs to be started manually, run this file as root (other users will not have the privileges to connect a process to port 25).

rc.local – this is a user-editable Linux file found in /etc/rc.d and is called during system startup and shutdown. This file calls \$HOME/recoverall, \$HOME/jrnon, \$HOME/taskman start and

\$HOME/netmail_start during system startup. It will call \$HOME/zgstop during system shutdown. If rc.local is successful in each of these calls, the following empty files will be created in \$HOME of the BCMA manager account: recoverys, TaskMan, netmails, and rundowns.

recoverall – this file is called by *rc.local* during system startup and attempts to recover the database should the system be shutdown uncleanly.

taskman_start – this file starts TaskMan automatically during system startup. If TaskMan needs to be started manually, run *taskman_start* as root (TaskMan automatically starts HL7 processes – the LISTNER link needs to connect with port 10000).

V*IST***A** – this script resides in the /home/bcma and /home/gtm manager directories and is called by the icon file \$HOME/.gnome-desktop/ **V***IST***A** -icon for the respective users

*-icon - These are the desktop icon files. The BCMA and GT.M manager users both have the VISTA -icon, which will bring the user to the access/verify prompts. In addition to this, the GT.M manager user will also have the term-icon and editor-icon on its desktop to open a terminal session and gedit text editor respectively.

zgstop - this file is called by *rc.local* during system shutdown to shutdown GT.M cleanly and performs a recovery if needed. Call this file as root if GT.M needs to be shutdown (only the root user will be permitted to stop ALL GT.M processes – if another user call zgstop, only its own processes will be shutdown). This file is derived from */usr/local/gtm/gstop*.

Adding a BCMA printer to the Cache/NT Contingency system:

Contingency Workstation (V/STA) printer:

Slave printers are defined in VISTA as P22O/102 SLAVE CACHE/NT

- test the printer through VISTA

DEVICE file entry:

NAME: P220/102 SLAVE CACHE/NT \$1: 0

ASK DEVICE: NO ASK PARAMETERS: NO

LOCATION OF TERMINAL: slave device for Cache/NT

MNEMONIC: SLAVE

SUBTYPE: C-VT220 TYPE: TERMINAL

Network printer:

From the NT menu:

- Start/Settings/Printers/Add Printer
- Select the *My Computer* radio button then *Next* to continue
- Click the *Add Port* button
- Double click the *LPR Port* then fill in the IP address of the device and the name then *Close* to continue
- make sure the box for the newly created port is checked then *Next* to continue
- select the printer driver (note you may need the NT install CD handy for this step) then *Next* to continue
- enter the printer name then *Next* to continue NOTE: this is the value that will be used in the \$I below
- select shared or not shared then *Next* to continue
- try printing a test page at this point, NT might start requesting the install CD for specific drivers

From the W2K menu:

- Start/Settings/Printers/Add Printer
- *Next* at the welcome add printer wizard box
- Select the *Local Printer* radio button and uncheck the automatic detection for plug and play devices then *Next* to continue
- Select the *Create a new port* radio button then select either *LPR* or *Standard TCPIP port* from the dropdown menu.
- For LPR:
 - o fill in the IP address of the device and the name then *Close* to continue

- For TCPIP:
 - o click *Next* to continue in the welcome wizard window
 - o enter the printer name or IP address then *Next* to continue
- select the driver then *Next* to continue
- enter the printer name then *Next* to continue NOTE: this is the value that will be used in the \$I below
- share or not then *Next* to continue
- print a test page then *Next* to continue

From within Contingency Workstation (V/STA) Printer

- No special terminal types need to be used for Cache/NT network printing. Several HP-LASER terminal types are available in the TERMINAL TYPE file as installed.
- Create a new entry in the DEVICE file as per the example below. \$I syntax is |PRN|\\bcmaservername\LPR device defined above. In the example below, the A410 printer was defined as an LPR port through NT. The server name is VHAISADHC1
- Test the printer through **V***IST***A**.

Examples:

DEVICE file entries:

NAME: A410 \$1: |PRN|\VHAISADHC2\A410 LOCATION OF TERMINAL: A410 SUBTYPE: P-HPL/10/6/U TYPE: TERMINAL

TERMINAL TYPE file entries:

```
NAME: P-HPLASER-P10
                                       RIGHT MARGIN: 80
  FORM FEED: #
                                       PAGE LENGTH: 64
 BACK SPACE: $C(8)
                                       OPEN EXECUTE: W *27,"E"
 CLOSE EXECUTE: W *27,"E"
                                      PROPORTIONAL SPACING: $C(27) "(s1P"
  DESCRIPTION: LASER PRINTER PORTRAIT MODE 10 CPI
NAME: P-HPLASER-L230
                                       RIGHT MARGIN: 230
  FORM FEED: $C(12,13)
                                       PAGE LENGTH: 64
 BACK SPACE: $C(8)
 OPEN EXECUTE: W *27,"E",*27,"&k7.2H",*27,"&k2S",*27,"&l1o11c1e5.15c72F",*27,"&
a011230m0R", *27, "(s0p16.66h12v0s0b3T"
 CLOSE EXECUTE: W *27,"&100",*27,"&s0C",*27,"&k10H",*27,"&17.4c69p2e67F",*27,"&
ao1195M"
 DESCRIPTION: LASER REDUCED 16 CPI (8 1/2 X 14)
16 PITCH: W $C(27)_"(s16.66H"
```

Adding a BCMA printer to the GT.M/Linux Contingency system:

Contingency Workstation (V/STA)

From the Linux menu:

- 1. Select System Settings then Printing
- 2. In the Red Hat printer config windows click *New* to create a new printer queue
- 3. Read the instructions then click *Forward* to continue
- 4. Specify 'local' or 'LOCAL' as the name for the new printer and select *local printer* radio button then click *Forward* to continue
- 5. Accept /dev/lp0 as printer device to use then click Forward to continue
- 6. Select the driver for your local printer then click *Forward* to continue. *Postscript Printer* is usually acceptable for HP printers
- 7. Click *Apply* button to restart LPD
- 8. You may test the printer by selecting it in the Red Hat printer config window then selecting *Test* from the horizontal menu.

From within Contingency Workstation (V/STA)

- 1. P220/102 SLAVE GTM/LINUX entries are already pre-defined in VISTA DEVICE file.
- 2. test the printer through VISTA

DEVICE file entries:

```
NAME: P220/102 SLAVE GTM/LINUX $1: $HOME/slave.dat ASK DEVICE: NO ASK PARAMETERS: NO
 LOCATION OF TERMINAL: basic slave device for gtm/linux
                             SUPPRESS FORM FEED AT CLOSE: YES
 ASK HOST FILE: NO
 OPEN PARAMETERS: newversion
MNEMONIC: SLAVE
 SUBTYPE: P-SLAVE TEXT GTM/LINUX TYPE: HOST FILE SERVER
NAME: P220/102 HP 80 SLAVE GTM/LINUX $1: $HOME/slave.dat
                            ASK PARAMETERS: NO
 ASK DEVICE: NO
 LOCATION OF TERMINAL: HP 80 slave device for gtm/linux
                            SUPPRESS FORM FEED AT CLOSE: YES
 ASK HOST FILE: NO
 OPEN PARAMETERS: newversion
MNEMONIC: SLAVE
 SUBTYPE: P-SLAVE HP 80 GTM/LINUX TYPE: HOST FILE SERVER
NAME: P220/102 HP 132 SLAVE GTM/LINU $1: $HOME/slave.dat
                ASK PARAMETERS: NO
 ASK DEVICE: NO
 LOCATION OF TERMINAL: HP 132 slave device for gtm/linux
 ASK HOST FILE: NO SUPPRESS FORM FEED AT CLOSE: YES
 OPEN PARAMETERS: newversion
MNEMONIC: SLAVE
 SUBTYPE: P-SLAVE HP 80 GTM/LINUX TYPE: HOST FILE SERVER
```

TERMINAL TYPE file entries:

```
NAME: P-SLAVE HP 132 GTM/LINUX
                                         RIGHT MARGIN: 132
 FORM FEED: #
                                        PAGE LENGTH: 60
  BACK SPACE: $C(8)
  OPEN EXECUTE: W *27, "E", *27, "(s16.7H", *27, "&k3G"
 CLOSE EXECUTE: W *27, "E" U IO K IO(1, IO) C IO ZSYSTEM "lpr -lr " IO
```

```
NAME: P-SLAVE HP 80 GTM/LINUX RIGHT MARGIN: 80
FORM FEED: # PAGE LENGTH: 60

BACK SPACE: $C(8) OPEN EXECUTE: W *27, "E", *27, "&k3G"
  CLOSE EXECUTE: W *27, "E" U IO K IO(1, IO) C IO ZSYSTEM "lpr -lr " IO
```

```
NAME: P-SLAVE TEXT GTM/LINUX
                                       RIGHT MARGIN: 80
  FORM FEED: #
                                       PAGE LENGTH: 60
  BACK SPACE: $C(8)
 CLOSE EXECUTE: U IO K IO(1,IO) C IO ZSYSTEM "lpr -r " IO
```

Network printer:

From the Linux menu:

- 1. select System Settings then Printing
- 2. In the Red Hat printer config windows click *New* to create a new printer queue
- 3. read the instructions then click *Forward* to continue
- 4. specify the name of the new printer (example: A405) and select either the *Unix Printer* or *Jetdirect Printer* radio button as type (NOTE: Unix printer uses port 515 and Jetdirect uses port 9100) then click *Forward* to continue
 - a. if Unix printer: enter the printer hostname or IP in the **Server** box no need to enter queue information
 - b. if Jetdirect printer: enter the printer hostname or IP in the *Printer IP* box accept 9100 as the port value then click *Forward* to continue.
- 5. Select the driver for your network printer then click *Forward* to continue. *Postscript* **Printer** is usually acceptable for HP printers.
- 6. click *Apply* button to restart LPD
- 7. You may test the printer by selecting it in the Red Hat printer config window then selecting *Test* from the horizontal menu.

From within Contingency Workstation (V*IST*A)

- 1. P-TCP * GTM/LINUX entries are already pre-defined in VISTA TERMINAL TYPE file. You may use TRANSFER FILE ENTRIES FileMan option to create new terminal types using these as templates. Edit the OPEN EXECUTE fields accordingly to vary print characteristics
- 2. Create a new DEVICE file entry.
 - a. Note: The name of the new DEVICE must begin with the name of the Linux printer created above FOLLOWED BY A SPACE then a description (example:

"A405 - ADMIN 10/6/UP"). The CLOSE EXECUTE field of the TERMINAL TYPE being used parses the queue name from the first space backward)

- b. I\$'s for network printers are normally /home/*Linux bcma mgr acct*/hfs/devicename.txt
- c. Device TYPE HFS
- 3. test the printer through **V***IST***A**

Examples:

DEVICE file entries:

```
NAME: A405 10/6/UP
                                            $I: /home/gtmmgr/hfs/A405.dat
  ASK DEVICE: NO
                                            ASK PARAMETERS: NO
  LOCATION OF TERMINAL: A405
                                            ASK HOST FILE: NO
  SUPPRESS FORM FEED AT CLOSE: YES OPEN PARAMETERS: newversion SUBTYPE: P-TCP 10/6/UP GTM/LINUX TYPE: HOST FILE SERVER
NAME: A405 16/6/UP
                                            $I: /home/gtmmgr/hfs/A405.dat
  ASK DEVICE: NO
                                            ASK PARAMETERS: NO
  LOCATION OF TERMINAL: A405
                                            ASK HOST FILE: NO
  SUPPRESS FORM FEED AT CLOSE: YES
                                            OPEN PARAMETERS: newversion
  SUBTYPE: P-TCP 16/6/UP GTM/LINUX
                                            TYPE: HOST FILE SERVER
```

TERMINAL TYPE file entries:

```
NAME: P-TCP 10/6/UP GTM/LINUX SELECTABLE AT SIGN-ON: NO RIGHT MARGIN: 80 FORM FEED: #
PAGE LENGTH: 60 BACK SPACE: $C(8)
OPEN EXECUTE: W *27,"E",*27,"&k3G"
CLOSE EXECUTE: W *27,"E" U IO K IO(1,IO) C IO ZSYSTEM "lpr -lrp"
"_$E(ION,1,$F(ION," ")-1)_" "_IO
```

```
NAME: P-TCP 16/6/UP GTM/LINUX SELECTABLE AT SIGN-ON: NO
RIGHT MARGIN: 132 FORM FEED: #
PAGE LENGTH: 60 BACK SPACE: $C(8)

OPEN EXECUTE: W *27,"E", *27,"(s16.7H", *27,"&k3G"

CLOSE EXECUTE: W *27,"E" U IO K IO(1,IO) C IO ZSYSTEM "lpr -lrp"
"_$E(ION,1,$F(ION," ")-1)_" "_IO
```

Workstation Queued Tasks

The following tasks should be queued to run on the workstation. All except XMMGR-PURGE-AI-XREF (which has a rescheduling frequency of 7D) should have a rescheduling frequency of 1D. The GT.M and Cache dat files where released with these jobs scheduled properly but they should be checked, once TaskMan is started, to make sure they have run and are being rescheduled.

The following capture shows how to list the currently queued workstation tasks and verifies that the HL PURGE TRANSMISSIONS task has been rescheduled. Check the TaskMan error log should the jobs not appear to be run or scheduled properly.

```
Select Systems Manager Menu Option:
          Core Applications ...
          Device Management ...
          Menu Management ...
          Programmer Options ...
          Operations Management ...
          Spool Management ...
          Information Security Officer Menu ...
          Taskman Management ...
          User Management ...
          Application Utilities ...
          Capacity Management ...
          HL7 Main Menu ...
Select Systems Manager Menu Option: TASKman Management
          Schedule/Unschedule Options
          One-time Option Queue
          Taskman Management Utilities ...
          List Tasks
          Dequeue Tasks
          Requeue Tasks
          Delete Tasks
          Print Options that are Scheduled to run
          Cleanup Task List
          Print Options Recommended for Queueing
Select Taskman Management Option: SCHEdule/Unschedule Options
Select OPTION to schedule or reschedule: ?
   Answer with OPTION SCHEDULING NAME
   Choose from:
  XQBUILDTREEQUE (R)
XQ XUTL $J NODES (R)
  XUTM QCLEAN (R)
  XUERTRP AUTO CLEAN
                        (R)
  XMCLEAN (R)
  XMAUTOPURGE (R)
```

```
XMMGR-PURGE-AI-XREF (R)
  HL PURGE TRANSMISSIONS (R)
  HL TASK RESTART (R)
  HL AUTOSTART LINK MANAGER (R)
    You may enter a new OPTION SCHEDULING, if you wish
    Enter OPTION to schedule.
    Only allow Action, Print, and Run type options.
Answer with OPTION NAME
Do you want the entire OPTION List? N (No)
Select OPTION to schedule or reschedule: HL PURGE TRANSMISSIONS Purge
Messages
        ...OK? Yes// <ENTER> (Yes)
                        Edit Option Schedule
   Option Name: HL PURGE TRANSMISSIONS
   Menu Text: Purge Messages
                                                      TASK ID: 433
 QUEUED TO RUN AT WHAT TIME: JUN 3,2003@04:00
DEVICE FOR QUEUED JOB OUTPUT:
QUEUED TO RUN ON VOLUME SET:
     RESCHEDULING FREQUENCY: 1D
            TASK PARAMETERS:
           SPECIAL QUEUEING:
```

Quick Reference Installation Checklist

Event 1. Install patch PSB*2.0*17 A. FTP Software from an OI Field Office B. Install using Kids 2. Workstation Setup NOTE: Ensure that the workstation has a static IP Address	Where VISTA	Completed
 A. Windows/Cachè Setup Cachè – InterSystems supplies software. Example of install can be found in the manual, "Bar Code Medication Administration Backup System (BCBU) InterSystems Cache Installation Setup". Shutdown Cachè Copy cache.dat file that was downloaded from the FTP site into C:\CACHESYS\folder. (If asked to replace file, answer yes.) Remove the Read-Only attribute from the cache.dat file. 	Workstation	
 Ensure telnet is enabled in Cachè Configuration. Move ZSTU routine from VISTA namespace to %SYS namespace. Setup Telnet and Terminal users using Cachè Control Panel. Stop and Restart Cachè. Create BCMA Backup shortcut. Linux/GT.M Install Linux onto clean system Example of install can be found in the manual, "Bar Code Medication Administration Backup System (BCBU) Linux Installation Setup. Make note of username entered and its password for future use. Also, remember the root password. 	Workstation	

Sample PC Workstation Database Initialization

Eve	nt	Where	Completed
	3. Sign into Linux using the user		-
	created during the installation.		
	4. Enter super user mode ($\$ \underline{su}$)		
	5. Copy downloaded Linux files to		
	an accessible location.		
	6. Ensure downloaded file has		
	correct permissions.		
	7. Run the install script.		
	(./install_bcma) – NOTE: BCMA		
	manager account will be the user		
	you created during the Linux		
	install. 8. Edit the TaskMan Site		
	Parameters to enter the correct Box-		
	Volume pair. 9. Restart TaskMan.		
3.	Workstation Database Initialization		
	A. On new installs check the parameter	VISTA	
	PSB BKUP ONLINE VALUE=yes	VISIA	
	B. Check the HL7 Site Parameter to	VISTA	
	make sure the field, "Is this a	VISIA	
	Production or Test Account", is set		
	correctly.		
	C. Add a new link using HL7 options.	V IST A	
	D. Associate the new link to a division	VISTA	
	using PSB BCBU VISTA MAIN option.	V 1811 1	
	E. Start the new link using HL7	V IST A	
	options.		
	F. Start the LISTNER link using HL7	Workstation	
	options.		
	G. Initialize the workstation using	V IST A	
	Default or Divisional Workstation		
	initialize option.		
	±		

List/Display Orders

```
Select BCMA Backup System (Wrkstn) Option: SO <ENTER> List/Display Orders
                                                         Jun 06, 2003@07:26:48 Page: 1 of 2
BCMAbu Patient List (All)
BCMA Backup System :: Patient Listing
                                                                           Room Bed
                                       111111111 10W
                                                                          NW1003A 3
                                         222222222 4 MED
                                                                            M20
656
 PATIENT, TEST2
PATIENT, TEST2 22222222 4 MED M20
PATIENT, TEST3 333333333 TICU 656
PATIENT, TEST4 44444444 3E SUBACUTE A330
PATIENT, TEST5 55555555 3W ORTHO SW309
PATIENT, TEST6 666666666 4E M SE403
PATIENT, TEST7 777777777 4 SURG M30
PATIENT, TEST8 88888888 3W GS NW304
PATIENT, TEST9 99999999 2B APCU B218
PATIENT, TEST10 101010101 3E GEM A345
PATIENT, TEST11 111001111 2B APCU B215
PATIENT, TEST 1 222334444 TICU 6556
                                                                           NW304
B218
A345
B215
                                                                                          9
       Enter ?? for more actions
SP Select Patient LW List by Ward LA List All Patients Select Item(s): Next Screen// SP <ENTER> Select Patient
Select PATIENT: PATIENT, TEST
BCMAbu ALL Orders List Jun 06, Zuuseur...

SSN: 111111111 Ward: 10W
                                                Jun 06, 2003@07:27:23 Page: 1 of
This record last updated: Apr 30, 2003@09:38:02 Room: NW1003A Bed: 3
 Order No. Status Type Medication(s)
 57225P Pending P ACETAMINOPHEN TAB (325MG ORAL QID PRN)
            Enter ?? for more actions
SO Select Order L1 List Active Orders L2 List All Orders
Select Action: Quit// SO <ENTER> Select Order
Select order number, more than one separated by a comma, or 'ALL':
```

```
Select ORDER#: ALL// 57225P
BCMAbu Selected Order(s) Jun 06, 2003@07:27:5
PATIENT, TEST SSN: 111111111 Ward: 10W
                                                                Jun 06, 2003@07:27:51 Page: 1 of 1
This record last updated: Apr 30, 2003@09:38:02 Room: NW1003A Bed: 3
 Order Number: 57225P
                                                                                     Start: Apr 12, 2002@09:35
              Type: PENDING
                                                                                       Stop: May 12, 2002@15:00
           Status: IP~pending
              Drug: ACETAMINOPHEN TAB
              Give: 325MG ORAL QID PRN
        Provider: PROVIDER, MD
                                                                          RPh/Entry by: PHARMACIST
 Admin. Times:
CAUTION! THIS IS A PENDING ORDER :: CHECK WITH PROVIDER!
                 Enter ?? for more actions
Select Action:Quit// <ENTER> QUIT
BCMAbu Patient List (All)
                                                                    Jun 06, 2003@07:28:42
                                                                                                                        Page: 1 of 2
BCMA Backup System :: Patient Listing
                                                                                                   Room
 Patient
                                                    SSN Ward

        PATIENT, TEST
        111111111 10W
        NW1003A

        PATIENT, TEST2
        222222222 4 MED
        M20

        PATIENT, TEST3
        333333333 TICU
        656

        PATIENT, TEST4
        444444444 3E SUBACUTE
        A330

        PATIENT, TEST5
        55555555 3W ORTHO
        SW309

        PATIENT, TEST6
        66666666 4E M
        SE403

        PATIENT, TEST7
        777777777 4 SURG
        M30

        PATIENT, TEST8
        888888888 3W GS
        NW304

        PATIENT, TEST9
        999999999 2B APCU
        B218

        PATIENT, TEST10
        101010101 3E GEM
        A345

        PATIENT, TEST11
        111001111 2B APCU
        B215

        PATIENT, TEST 1
        222334444 TICU
        656

                                                                                                                        С
                                                                                                                        Α
               Enter ?? for more actions
SP Select Patient
                                          LW List by Ward
                                                                                      LA List All Patients
Select Item(s): Next Screen// LW <ENTER> List by Ward
Wards with BCMA Backup Data on this workstation:
        10W
        2B APCU
        3E GEM
        3E SUBACUTE
        3W GS
        3W ORTHO
        4 MED
        4 SURG
        4E ENT
        4E M
        4E ON
        MTCU
        TICU
```

```
Select WARD: 10W

BCMAbu Patient List (Ward) Jun 06, 2003@07:29:08 Page: 1 of 1

BCMA Backup System :: Patient Listing

Patient SSN Ward Room Bed

PATIENT, TEST 111111111 10W NW1003A 3

PATIENT, TEST3 131313131 10W NW1003 2

Enter ?? for more actions

SP Select Patient LW List by Ward LA List All Patients

Select Item(s): Quit// SP <ENTER> Select Patient

Select PATIENT, TEST
```

```
BCMAbu ALL Orders List Jun 06, 2003@07:29:45 Page: 1 of 1
PATIENT, TEST SSN: 111111111 Ward: 10W
This record last updated: Apr 30, 2003@09:38:02 Room: NW1003A Bed: 3

Order No. Status Type Medication(s)

57225P Pending P ACETAMINOPHEN TAB (325MG ORAL QID PRN)

Enter ?? for more actions

SO Select Order L1 List Active Orders L2 List All Orders
Select Action: Quit// <ENTER>
```

Print MAR for All Wards

Select BCMA Backup System (Wrkstn) Option: PA Print MAR for Al Inpatient Pharmacy Orders for all wards	ll Wards				
Report [A]LL or [C]URRENT orders? CURRENT//					
Print how many days MAR? 7// 3					
Select beginning date for BCMA Medication Log history: Jun 03,	2003// (J	UN 03, 2	003)		
MAR Ran: Jun 06, 2003@07:18:38		М			Page:
Start Stop	Admin Times	06/06	06/07	06/08	Notes
Jun 04, 2003@09:50 Jun 09, 2003@24:00	 		 I		
<pre><<ampicillin inj="" sulbactam="">> Additive(s): <<ampicillin 1="" 75gm="" bottle:="" sulbactam="">></ampicillin></ampicillin></pre>	1	1	l	.ll	
Solution(s): < <d-5-w 100ml="">></d-5-w>	į		<u> </u>		
<<0.9% NACL 250ML>> Give: INTRAVENOUS 125 ml/hr			 		
Provider: PROVIDER,MD RPh/Entry by: PHARM,STAFF1	1	ļ	l		
Verified by: NURSE, VOLUNTEER					
Order #: 14V Type: IV Status: CM~finished/verified by pharmacist(active) BCMA MEDICATION LOG HISTORY (since Jun 03, 2003) No Medication Log entries are on file for this order.					
	Admin	06/05	06/05	06/00	
Start Stop 	Times				
May 19, 2003@14:04 Jun 15, 2003@24:00 < <acetaminophen 500mg="" tab="">></acetaminophen>	0230 0530	1	l	.ll	
Give: 500MG ORAL Q3H PRN	0800		<u> </u>		
Provider: PROVIDER,MD RPh/Entry by: PHARM,STAFF1	1130 1400		l l		
Order #: 72U Type: UNIT DOSE Status: CM~finished/verified by pharmacist(active)	1700 2000	1	l	.ll	
Status: CM~finished/verified by pharmacist(active) BCMA MEDICATION LOG HISTORY (since Jun 03, 2003) Log Date Message	2300	i		'i	
Log Date Message Log Entry Person No entries since the above date are on file.	PRN Effe	ctivenes	s:		
	 Admin				
Start Stop	Times	06/06	06/07	06/08	Notes
May 28, 2003@10:48 Jun 15, 2003@24:00	0200	!	!	!!	
< <trace 5ml="" elements="" inj="">> Give: 25CC SUBCUTANEOUS Q3H</trace>	0500 0800	\ <u></u>	 		
Provider: PROVIDER,MD RPh/Entry by: PHARM,STAFF1	1100 1400	ļ	I		
Order #: 74U Type: UNIT DOSE	1700		<u> </u>		
Status: CM~finished/verified by pharmacist(active) Special Instructions:TESTING	2000 2300	\ <u></u>	 		
BCMA MEDICATION LOG HISTORY (since Jun 03, 2003) No Medication Log entries are on file for this order.					
no neurodesia ray energed dre on rice for entro order.	 Admin				
Start Stop	Times				
May 28, 2003@10:49 Jun 15, 2003@24:00	0500	1	ļ	ļĪ	
< <ibuprofen 600mg="" tab="">> Give: 600MG ORAL TID FILL ON REQUEST</ibuprofen>	1300 2100	-	l		
Provider: PROVIDER,MD RPh/Entry by: PHARM,STAFF1					
Order #: 76U Type: UNIT DOSE					
Status: CM~finished/verified by pharmacist(active) BCMA MEDICATION LOG HISTORY (since Jun 03, 2003) No Medication Log entries are on file for this order.					
Start Stop	Admin Times	06/06			
Jun 02, 2003@16:27 Jun 15, 2003@24:00		I			
< <acetohexamide 250mg="" tab="">></acetohexamide>					
Give: 250MG ORAL ONCE ONE TIME					
Give: 250MG ORAL ONCE ONE TIME Provider: PROVIDER,MD					
Provider: PROVIDER,MD					
Provider: PROVIDER,MD RPh/Entry by: PHARM,STAFF1 Verified by: NURSE,VOLUNTEER Order #: 77U Type: UNIT DOSE					
Provider: PROVIDER,MD RPh/Entry by: PHARM,STAFF1 Verified by: NURSE,VOLUNTEER					

Start	Stop		Admin Times	06/06	06/07	06/08	Notes
Jun 02, 2003@16:27	Jun 15, 2003@24:00		0500	I	I		
<pre><<aloh 1="" give:="" mgoh="" pre="" simth="" table<="" xtr=""></aloh></pre>	A STRENGTH CHEW TAB>> F ORAL Q6H PRN		1100 1700			. l l	
Provider: PROVIDE	R,MD		2300	i	i	ii	
RPh/Entry by: PHARM,S: Order #: 78U	TAFF1 Type: UNIT DOSE		PRN Effe	ctivenes	s:		
Status: CM~fini:	shed/verified by pharmacist						
	ISTORY (since Jun 03, 2003) tries are on file for this						
Start	Stop		Admin Times	06/06	06/07	06/08	Notes
Jun 02. 2003@16:28	Jun 15, 2003@24:00		0100		 I		
< <tramadol 50mg="" hcl="" ta<="" td=""><td>AB>></td><td></td><td>0300</td><td>i</td><td>į</td><td>ii</td><td></td></tramadol>	AB>>		0300	i	į	ii	
Give: 50MG OR Provider: PROVIDE	AL Q2H FILL ON REQUEST		0500 0700		 	.	
RPh/Entry by: PHARM, S			0900		!	!!	
	Type: UNIT DOSE shed/verified by pharmacist		1100				
	ISTORY (since Jun 03, 2003)		1500		1		
NO Medication rod en	tries are on file for this		1700 1900			i	
			2100 2300	-		<u> </u>	
			1 2300	_'	'	'l	
Start	Stop		Admin Times	06/06	06/07	06/08	Notes
			111162				
Jun 02, 2003@16:29 < <salsalate 750mg="" tab:<="" td=""><td>Jun 15, 2003@24:00</td><td></td><td></td><td></td><td></td><td> </td><td></td></salsalate>	Jun 15, 2003@24:00						
Give: 750MG O	RAL ON CALL ON CALL		i		i	ii	
Provider: PROVIDER RPh/Entry by: PHARM,S			1				
Verified by: NURSE, V	DLUNTEER		į		i		
	Type: UNIT DOSE shed/verified by pharmacist	(active)	1		l		
BCMA MEDICATION LOG H	ISTORY (since Jun 03, 2003)						
	tries are on file for this	order.					
SIGNATUR			(Right o	r Left)			
				/			
1		1. DELTOID 2. VENTRAL GLUTE	4.	MED (ANT VASTUS L	ERIOR) ATERALI	THIGH 7	. ABDOMEN
I		2. VENTRAL GLUTE 3. GLUTEUS MEDIU	4. EAL 5. JS 6.	VASTUS L UPPER AR	ATERALI M	S 8	. THIGH D. BUTTOCK
 		1. DELTOID 2. VENTRAL GLUTE 3. GLUTEUS MEDIC 10. UPPER BACK	4. EAL 5. JS 6.	VASTUS L UPPER AR	ATERALI M	S 8	. THIGH D. BUTTOCK
		2. VENTRAL GLUTE 3. GLUTEUS MEDIU 110. UPPER BACK nacy Orders (Backup	4. EAL 5. JS 6. PRN:	VASTUS L UPPER AR E=Effect	ATERALI M	S 8	. THIGH D. BUTTOCK
		2. VENTRAL GLUTE 3. GLUTEUS MEDIU 110. UPPER BACK nacy Orders (Backup	4. EAL 5. JS 6. PRN:	VASTUS L UPPER AR E=Effect	ATERALI M	S 8	. THIGH . BUTTOCK ctive[[H[]J[[2J]
ROCK,HENRY M Ward: 3E GEM	 	2. VENTRAL GLUTE 3. GLUTEUS MEDIU 10. UPPER BACK hacy Orders (Backup DOB: Aug 09, 191 Bed: C	4. EAL 5. JS 6. PRN:	VASTUS L UPPER AR E=Effect	ATERALI M	S 8	. THIGH . BUTTOCK ctive[[H[]J[[2J]
ROCK,HENRY M Ward: 3E GEM This rec	07:18:39 Inpatient Pharm SSN: 222334545 Room: A342 ord last updated: Jun 05, 2	2. VENTRAL GLUTE 3. GLUTEUS MEDIT 110. UPPER BACK nacy Orders (Backup DOB: Aug 09, 191 Bed: C 2003@12:21:04	4. 5. JS 6. PRN: 0) 1 Sex:	VASTUS L UPPER AR E=Effect M	ATERALI M ive N=	S 8 9 Not Effe	. THIGH . BUTTOCK sctiven[Hn[Jn[2Jn Page:
ROCK,HENRY M Ward: 3E GEM This reco	307:18:39 Inpatient Pharm SSN: 222334545 Room: A342 ord last updated: Jun 05, 2	2. VENTRAL GLUTE 3. GLUTEUS MEDIT 10. UPPER BACK macy Orders (Backup DOB: Aug 09, 191 Bed: C 1003@12:21:04	4. 2AL 5. JS 6. PRN: D) 1 Sex: Admin Times	VASTUS L UPPER AR E=Effect M	ATERALI M ive N=	S 8 9 Not Effe	. THIGH . BUTTOCK ctive[[H[]J[[2J]
ROCK,HENRY M Ward: 3E GEM This reco	07:18:39 Inpatient Pharm SSN: 222334545 Room: A342 ord last updated: Jun 05, 2 Stop Jul 02, 2003@24:00	2. VENTRAL GLUTE 3. GLUTEUS MEDIT 110. UPPER BACK nacy Orders (Backup DOB: Aug 09, 191 Bed: C 2003@12:21:04	4. EAL 5. JS 6. PRN: D) 1.1 Sex: Admin Times	VASTUS L UPPER AR E=Effect M 06/06	ATERALI M ive N=	S 8 9 Not Effe	. THIGH . BUTTOCK sctiven[Hn[Jn[2Jn Page:
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Verified by: NURSE, VOLUNTEER Order #: 38U Type: UNIT DOS Status: CM-finished/verified by ph BCMA MEDICATION LOG HISTORY (since Jun O No Medication Log entries are on file f	armacist(active) 3, 2003)
SIGNATURE/TITLE	INIT INJECTION SITES (Right or Left) VA FORM 10-2970 1. DELTOID 4. MED (ANTERIOR) THIGH 7. ABDOMEN 2. VENTRAL GLUTEAL 5. VASTUS LATERALIS 8. THIGH 3. GLUTEUS MEDIUS 6. UPPER ARM 9. BUTTOCK 10. UPPER BACK PRN: E=Effective N=Not Effective=[H=[J=[2J=[H=1]]]
MAR Ran: Jun 06, 2003@07:18:39 Inpatie PATIENT, TEST 1 SSN: 2 Ward: TICU Room: 656 This record last updated: A	22334444 DOB: Jun 17, 1948 Sex: M Bed: 9
Start Stop	Times 06/06 06/07 06/08 Notes
May 07, 2003@10:19:41 Jul 01, 2003 < <rriamcinolone inj,susp="">> Additive(s): <<triamcinolone 100ml="" <<0.9%="" diacetate="" nacl="" solution(s):="">> Give: INTRAVENOUS 50 ml/hr Provider: PROVIDER,MD RPh/Entry by: PHARM,STAFF1 Order #: 63V Type: IV Status: CM~finished/verified by ph BCMA MEDICATION LOG HISTORY (since Jun 0 No Medication Log entries are on file f</triamcinolone></rriamcinolone>	armacist(active) 3, 2003)
SIGNATURE/TITLE	INIT INJECTION SITES (Right or Left) VA FORM 10-2970

Print MAR for Selected Patient

```
Select BCMA Backup System (Wrkstn) Option: PP Print MAR for Selected Patient
Inpatient Pharmacy Orders for a selected patient
Select PATIENT NAME: PATIENT, TEST
Report [A]LL or [C]URRENT orders? CURRENT//
Print how many days MAR? 7// 3
BCMA Medication Log history: this patient has no history on file.
MAR Ran: Jun 06, 2003@07:20:26 Inpatient Pharmacy Orders (Backup)
                                                                                                                        Page:
                                     SSN: 222334444 DOB: Mar 29, 1935 Sex: M
Ward: TICU
                                 Room: 656
                                                     Bed: 8
              This record last updated: Apr 30, 2003@09:38:46
Allergies: CIPROFLOXACIN
              SIGNATURE/TITLE
                                             | INIT | INJECTION SITES (Right or Left)
                                               | 1. DELTOID | 4. MED (ANTERIOR) THIGH 7. ABDOMEN | 2. VENTRAL GLUTEAL 5. VASTUS LATERALIS 8. THIGH | 3. GLUTEUS MEDIUS 6. UPPER ARM 9. BUTTOCK | 10. UPPER BACK | PRN: E=Effective N=Not Effective
                                              |____| 1. DELTOID
Inpatient Pharmacy Orders for a selected patient
Select PATIENT NAME: PATIENT, TEST
Report [A]LL or [C]URRENT orders? CURRENT// ALL
Print how many days MAR? 7// 3
BCMA Medication Log history: this patient has no history on file.
MAR Ran: Jun 06, 2003@07:20:52 Inpatient Pharmacy Orders (Backup)
                                                                                                                        Page:
                                     SSN: 222334444 DOB: Mar 29, 1935 Sex: M
Ward: TICU Room: 656 Bed. 0

This record last updated: Apr 30, 2003@09:38:46
Allergies: CIPROFLOXACIN
                                                                            Times 06/06 06/07 06/08 Notes
Start
                           Stop
                                                                          | 0900 | ***** | ***** | ****** |
Feb 12, 2003@11:09
                           Feb 13, 2003@14:00
<<ade>ADENOSINE INJ, SOLN>>
        Give: 4 MG INTRAVENOUS QD
    Provider: PROVIDER, MD
RPh/Entry by: TEAGUE, LYN D
                         Type: PENDING
    Order #: 57367P
      Status: IP~pending
CAUTION! THIS IS A PENDING ORDER :: CHECK WITH PROVIDER!
BCMA MEDICATION LOG HISTORY
 No Medication Log entries are on file for this order.
             SIGNATURE/TITLE
                                              | INIT | INJECTION SITES (Right or Left)
                                                                                                   VA FORM 10-2970
                                               | 1. DELTOID | 4. MED (ANTERIOR) THIGH 7. ABDOMEN | 2. VENTRAL GLUTEAL 5. VASTUS LATERALIS 8. THIGH | 3. GLUTEUS MEDIUS 6. UPPER ARM 9. BUTTOCK | 10. UPPER BACK PRN: E=Effective N=Not Effective
```

Print MAR for Selected Ward

Select BCMA Backup Syste	em (Wrkstn) Option: PW Print MAR for	Selected Ward	l				
Inpatient Pharmacy Orde: Select WARD: 3E GEM							
Report [A]LL or [C]URRE	NT orders? CURRENT//						
Print how many days MAR	? 7// 3						
Select beginning date for	or BCMA Medication Log history: Jun 03	, 2003// (J	UN 03, 2	003)			
PATIENT,TEST10 Ward: 3E GEM	7:24:36 Inpatient Pharmacy Orders (B SSN: 101010101 DOB: Jan 03 Room: A345 Bed: C d last updated: Jun 04, 2003@15:22:38	ackup) , 1949 Sex:	M			Pa	ige: 1
	Stop	Admin Times	06/06	06/07	06/08	Notes	
Jun 04, 2003@09:50	Jun 09. 2003@24:00	 I					
< <ampicillin :<="" sulbactam="" td=""><td>INJ>></td><td>į</td><td></td><td>į</td><td>ii</td><td></td><td></td></ampicillin>	INJ>>	į		į	ii		
Solution(s): < <d-5-w< td=""><td>LIN/SULBACTAM BOTTLE: 1 75GM>> 100ML>></td><td></td><td> </td><td>i</td><td> </td><td></td><td></td></d-5-w<>	LIN/SULBACTAM BOTTLE: 1 75GM>> 100ML>>			i			
<<0.9% N		1		ļ	<u> </u>		
Give: INTRAVENO Provider: PROVIDER,							
RPh/Entry by: PHARM,STA	FF1	T.	1	1	Ii		
Verified by: NURSE, VOLU Order #: 14V							
Status: CM~finish BCMA MEDICATION LOG HIS' No Medication Log entr	ed/verified by pharmacist(active) TORY (since Jun 03, 2003) ies are on file for this order.						
·		Admin					
		Times	06/06	06/07	06/08	Notes	
May 19, 2003@14:04 < <acetaminophen 500mg="" td="" ti<=""><td></td><td> 0230 0530</td><td>\<u></u></td><td>l</td><td>ll</td><td></td><td></td></acetaminophen>		0230 0530	\ <u></u>	l	ll		
Give: 500MG ORA	L Q3H PRN	0800	i	i	ii		
Provider: PROVIDER, PROVID		1130 1400		ļ			
Order #: 72U		1700		1			
OT GCT 11. 120		1 1/00					
Status: CM~finish	ed/verified by pharmacist(active)	2000	ļ				
Status: CM~finishe BCMA MEDICATION LOG HIS	ed/verified by pharmacist(active) TORY (since Jun 03, 2003)	2000	 ctivenes	 s:			
Status: CM~finishe BCMA MEDICATION LOG HIS	ed/verified by pharmacist(active) TORY (since Jun 03, 2003) e Log Entry Person	2000	 ctivenes	 			
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Status: CM~finish BCMA MEDICATION LOG HIS' Log Date Messag. No entries since the al	ed/verified by pharmacist(active) TORY (since Jun 03, 2003) E Log Entry Person pove date are on file.	2000 2300 PRN Effe			06/08	Notes	
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Status: CM~finish ECMA MEDICATION LOG HIS' Log Date Messag: No entries since the al Start May 28, 2003@10:48 < <trace 5ml="" elements="" in.<="" td=""><td>ed/verified by pharmacist(active) TORY (since Jun 03, 2003) e Log Entry Person bove date are on file. Stop Jun 15, 2003@24:00 J>></td><td> 2000 2300 PRN Effe </td><td></td><td></td><td>06/08</td><td>Notes</td><td></td></trace>	ed/verified by pharmacist(active) TORY (since Jun 03, 2003) e Log Entry Person bove date are on file. Stop Jun 15, 2003@24:00 J>>	2000 2300 PRN Effe 			06/08	Notes	
Status: CM~finish BCMA MEDICATION LOG HIS' Log Date Messag No entries since the al	ed/verified by pharmacist(active) TORY (since Jun 03, 2003) a Log Entry Person bove date are on file. Stop Jun 15, 2003@24:00 J>> UTANEOUS Q3H	2000 2300 PRN Effe Admin Times			06/08	Notes	
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Status: CM~finish ECMA MEDICATION LOG HIS' Log Date Messag: No entries since the al Start May 28, 2003@10:48 < <trace #:="" 25cc="" 5ml="" 74u<="" by:="" elements="" entry="" give:="" i="" in.="" order="" pharm,="" provider,="" provider:="" rph="" sta'="" subc!="" td=""><td>ed/verified by pharmacist(active) TORY (since Jun 03, 2003) e Log Entry Person bove date are on file. Stop Jun 15, 2003@24:00 J>> JTANEOUS Q3H MD FF1</td><td> 2000 2300 PRN Effe Admin Times 0200 0500 0800 1100</td><td></td><td></td><td>06/08</td><td>Notes</td><td></td></trace>	ed/verified by pharmacist(active) TORY (since Jun 03, 2003) e Log Entry Person bove date are on file. Stop Jun 15, 2003@24:00 J>> JTANEOUS Q3H MD FF1	2000 2300 PRN Effe Admin Times 0200 0500 0800 1100			06/08	Notes	
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Start	Stop	Admin Times	06/06	06/07	06/08	Notes
Jun 02, 2003@16:27 < <aloh mgoh="" s'<br="" simth="" xtra="">Give: 1 TABLET O Provider: PROVIDER,M</aloh>	TRENGTH CHEW TAB>> RAL Q6H PRN	0500 1100 1700 2300	 	 	 	
BCMA MEDICATION LOG HIST	Type: UNIT DOSE d/verified by pharmacist(active)	PRN Effec	ctivenes	s:		
		Admin				
		Times	06/06	06/07	06/08	NOTES
Provider: PROVIDER,M RPh/Entry by: PHARM,STAF Order #: 79U Status: CM~finishe BCMA MEDICATION LOG HIST	> Q2H FILL ON REQUEST D F1 Type: UNIT DOSE d/verified by pharmacist(active) ORY (since Jun 03, 2003)	0100 0300 0500 0700 0900 1100 1300 1500 1700 1900 2100 2300				
Start	Stop	Admin Times	06/06	06/07	06/08	Notes
Jun 02, 2003@16:29 < <salsalate 750mg="" tab="">></salsalate>	Jun 15, 2003@24:00 ON CALL ON CALL D F1 NTEER Type: UNIT DOSE d/verified by pharmacist(active)	 		 		
	es are on file for this order.	4. 1 EAL 5. V US 6. U	MED (ANT /ASTUS L JPPER AR	ERIOR) ATERALI M	THIGH 7 S 8 9	. ABDOMEN . THIGH . BUTTOCK
No Medication Log entri SIGNATURE/T SIGNATURE/T	es are on file for this order. ITLE	4. PRN: I	MED (ANT /ASTUS L JPPER AR E=Effect	ERIOR) ATERALI M	THIGH 7 S 8 9	. ABDOMEN . THIGH . BUTTOCK
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No Medication Log entri- SIGNATURE/T MAR Ran: Jun 06, 2003@07 ROCK,HENRY M Ward: 3E GEM This record Start Jun 05, 2003@11:52 < <ascorbic #:="" 100mg="" 36u="" acid="" by:="" cm~finishe<="" entry="" give:="" nurse,volu:="" oral="" order="" pharm,staf="" provider,m="" provider:="" rph="" status:="" ta:="" td="" verified=""><td>es are on file for this order. ITLE INIT INJECTION SITES 1. DELTOID 2. VENTRAL GLUTI 13. GLUTEUS MEDIN 10. UPPER BACK 10. UPPER</td><td>4. NEAL 5. NO SEAL 5.</td><td>MED (ANT VASTUS L JPPER AR E=Effect M</td><td>ERIOR) ATERALI M ive N=</td><td>THIGH 7 S 8 9 Not Effe</td><td>. ABDOMEN . THICH . BUTTOCK ctive[H0[J0[2J0[Page: 1</td></ascorbic>	es are on file for this order. ITLE INIT INJECTION SITES 1. DELTOID 2. VENTRAL GLUTI 13. GLUTEUS MEDIN 10. UPPER BACK 10. UPPER	4. NEAL 5. NO SEAL 5.	MED (ANT VASTUS L JPPER AR E=Effect M	ERIOR) ATERALI M ive N=	THIGH 7 S 8 9 Not Effe	. ABDOMEN . THICH . BUTTOCK ctive[H0[J0[2J0[Page: 1
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No Medication Log entri- SIGNATURE/T	es are on file for this order. ITLE INIT INJECTION SITES 1. DELTOID 2. VENTRAL GLUT! 3. GLUTEUS MEDI! 10. UPPER BACK :24:36 Inpatient Pharmacy Orders (Backup SSN: 222334545 DOB: Aug 09, 19: Room: A342 Bed: C last updated: Jun 05, 2003@12:21:04 Stop Jul 02, 2003@24:00 B>> Q3H D F1 NTEER Type: UNIT DOSE d/verified by pharmacist(active) ORY (since Jun 03, 2003) es are on file for this order.	A. N EAL 5. V US 6. V PRN: I PRN: I Admin Times 0200 0500 0800 1100 1400 1700 2000	MED (ANT VASTUS L JPPER AR E=Effect M 06/06	ERIOR) ATERALI M ive N= 06/07 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	06/08	. ABDOMEN . THICH . THICH . BUTTOCK ctive [H [J [2] [
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No Medication Log entri- SIGNATURE/T	es are on file for this order. ITLE INIT INJECTION SITES 1. DELTOID 2. VENTRAL GLUTI 13. GLUTEUS MEDII 10. UPPER BACK 10. UPPER	A. N. S. Y.	MED (ANT / ASTUS L TASTUS L T	ERIOR) ATERALI M IVE N= 06/07	06/08 06/08	. ABDOMEN . THIGH . THIGH . BUTTOCK ctive [H [J [2J [

Print Blank MAR for Selected Patient

Blank 3 Day MAR for Selected Patient

PATIENT, TEST Ward: TICU-C		SSN: 222334 Room: 656	narmacy Orders (1444 DOB: Mar Bed: 8 0, 2003@09:38:46	29, 1935 S	ex: M				Page: 1
Order	Start	Stop		Admin Times	APR 30	MAY 1	2	Notes	
RPH Ver	ify: N	urse Verify:							
RPH Ver	ify: N	urse Verify:							
RPH Ver	ify: N	urse Verify:							
RPH Ver	ify: N	urse Verify:							
RPH Ver	rify: N	urse Verify:							
	SIGNATURE/TITLE	IN	Indicate (IM) 1. DELTOID 2. VENTRAL 3. GLUTEUS 4. MED (AN'	GLUTEAL MEDIUS TERIOR) THIGH	(SUB 6. UPP 7. ABD 8. THI 1 9. BUT 10. UP	Q) ER ARM OMEN GH TOCK PER BACK		MED/DOSE OMITTED	REASON

Blank 7 Day MAR for Selected Patient

Ward: TICU-	r 30, 2003@09:47:17 T CO BCBU Record Last CIPROFLOXACIN	Room: 656								Page: 1
0rder	Start	Stop	Admin Times	APR 30	MAY 1	2 3	4	5	6	Notes
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			1	1	''-			I		
RPH Ve	rify:	Nurse Verify:								
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DOLL No.	-16	Norman Vanifor								
RPH Ve		Nurse Verify:								
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RPH Ve	rify:	Nurse Verify:								
I	SIGNATURE/TITLE	INIT	INJECTIO	N SITES		MED/	DOSE ON	AITTED		I REASON I
			Indicate RIGHT (
			(IM)	(SUE	3 Q)			· · ·		
			1. DELTOID 2. VENTRAL GLUTEAL	6. UPF 7. ABE	PER ARM DOMEN					
			3. GLUTEUS MEDIUS 4. MED (ANTERIOR) T	8. THI HIGH 9. BUT	igh Itock					
			VASTUS LATERALIS	10. UF	PER BACK					
						·				

List of Wards in BCMA Backup File

```
Select BCMA Backup System (Wrkstn) Option: WL List of Wards in BCMA Backup File
Wards with BCMA Backup Data on this workstation:

10W
2B APCU
3E GEM
3E SUBACUTE
3W GS
3W ORTHO
4 MED
4 SURG
4E ENT
4E M
4E ON
MICU
TICU
```

The messages are building on the VISTA side, but I see an open fail in the link monitor.

Check the following areas:

The IP address on both and make sure they match.

The Port numbers on both and make sure they match.

The Fire Wall on the Linux Workstation.

The Filers on the PC Workstation

The Link Manager on the Workstation.

The messages appear to be transmitting but no data is filing on the workstation.

Verify that the HL COMMUNICATION SERVER PARAMETERS field, "DEFAULT PROCESSING ID" is set correctly. This field must match the value of the sending **V***ISTA* system. In addition, verify that INCOMING and OUTGOING HL7 filers are running on the workstation

I don't see the message queue increase for my HL7 link when I run the 'Initialize Workstation" option or during activity on the VISTA side?

The following two places need to be checked:

Make sure the Link is enabled on the **V***IST***A** side. [HL MAIN MENU HL7 Main Menu] Make sure the Workstation Link is associated to the correct division or Default parameter. [XPAR MENU TOOLS General Parameter Tools Option]

I'm able to start TaskMan up with the Taskman_start script, but I notice that the HL7 link jobs do not start. What could be the problem?

Linux requires root privs to start listener jobs on TCPIP ports. TaskMan needs to be started by the root user so its submanagers (which start the listener) can have those privs as well. To do this, login as the BCMA Manager the issue the command "su -m" and enter the root password. Once you're logged in as root, start TaskMan by issuing the command "./taskman_start". The HL7 link manager and the listener link should start automatically. NOTE: Netmail startup has root requirements as well.

Running the netmail start script does not start netmail. What could be the problem?

Linux requires root privs to start listener jobs on TCPIP ports. To start up the network mail listener job, log in as the BCMA Manager, then issue the command "su -m" and enter the root password. Once you're logged in as root, start network mail by issuing the command "./netmail_start". NOTE: HL7 links have root requirements as well.

How can I verify the TCPIP listening jobs on Linux?

As root, issue the "netstat –tlp" command. This will provide information similar to the following:

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	PID/Program name
tcp	0	0	*:32768	*:*	LISTEN	523/rpc.statd
tcp	0	0	BCMA.med.va.gov:32769 *	:*	LISTEN	628/xinetd
tcp	0	0	*:printer	*:*	LISTEN	658/lpd Waiting
tcp	0	0	*:sunrpc	*:*	LISTEN	504/portmap
tcp	0	0	*:10000	*:*	LISTEN	1174/mumps
tcp	0	0	*:5904	*:*	LISTEN	13884/Xvnc
tcp	0	0	*:x11	*:*	LISTEN	813/X
tcp	0	0	*:ftp	*:*	LISTEN	628/xinetd
tcp	0	0	*:ssh	*:*	LISTEN	614/sshd
tcp	0	0	*:telnet	*:*	LISTEN	628/xinetd
tcp	0	0	*:smtp	* • *	LISTEN	1390/mumps

Ports of primary interest are 10000 (HL7 listener link) and smtp (port 25-netmail).

To see the numeric ports for common TCPIP protocols, issue the "netstat –tlp – numeric" command.

What is the best way to shut GT.M down?

\$HOME of the BCMA manager account contains the script zgstop. This script is customized to shutdown the BCMA configuration cleanly and run the GT.M database down (to ensure database integrity). To use this script properly, it must be run as root (the BCMA manager will not be able to shutdown HL7 link, netmail and TaskMan jobs started as root - this will prevent the database to rundown properly). To do this, login as the BCMA manager then issue the command "su -m" and enter the root password. Once you're logged in as root, issue the command './zgstop'.

How do I start GT.M up?

There is no single GT.M daemon. This means that each GT.M process 'starts' GT.M for itself. GT.M processes (TaskMan, netmail, HL7 jobs) should start automatically with a system reboot provided the /etc/init.d/gtm script was enabled when BCMA was installed using the install_bcma script.

From within GT.M, how can I view system status (like when I D \(^\sigma SS\) in Cache)?

GT.M does not provide a utility of it's own to provide this functionality. However, SD&D have provided the ^ZSY routine to accomplish this. As with other BCMA tasks, it is best to run this as the root user otherwise not all process information will be accessible. To do this, login as the BCMA manager then issue the command "su -m" and enter the root password. Drop into GT.M, issue the ZSY command as follows, and select the type of display desired:

GTM>D^ZSY

1 pid

```
2 cpu time
3 image/pid
4 image/cpu
1// 1
INTRPT issued to process 1409
INTRPT issued to process 1148
INTRPT issued to process 1390
INTRPT issued to process 1315
INTRPT issued to process 1307
INTRPT issued to process 1295
INTRPT issued to process 1291
INTRPT issued to process 1239
INTRPT issued to process 1229
INTRPT issued to process 1225
INTRPT issued to process 1222
INTRPT issued to process 1216
INTRPT issued to process 1213
INTRPT issued to process 1189
INTRPT issued to process 1179
INTRPT issued to process 1177
INTRPT issued to process 1174
INTRPT issued to process 1157
INTRPT issued to process 1145
```

GT.M Mumps users on 18-Mar-03 11:11:10											
Proc. id	Proc. name	PS	Terminal	Routine	Mode	CPU time					
1145	TaskMan VISTA 1	S	?	IDLE+1^%ZTM	-direct	-					
1148			pts/2		-direct	_					
1157	HLmgr:538	S	?	LOOP+3^HLCSLM	-direct	5					
1174	HLSrv:182	S	?		-direct	5					
1177		S	?	SUB+1^%ZTMS1	-direct	5					
1179	BTask 546	S	?	STARTIN+17^HLCSIN	-direct	5					
1189	BTask 545	S	?	STARTIN+17^HLCSIN	-direct	5					
1213	BTask 547	S	?	STARTOUT+16^HLCSOUT	Γ-direct	5					
1216	BTask 548	S	?	STARTOUT+16^HLCSOUT	[-direct						
1222	BTask 550	S	?	STARTIN+17^HLCSIN	-direct						
	BTask 551	S	?	STARTIN+17^HLCSIN	-direct	5					
1229	BTask 552	S	?	STARTOUT+16^HLCSOUT	Γ-direct	5					
1239	BTask 553	S	?	STARTOUT+16^HLCSOUT	Γ-direct	-					
1291	Sub 1291	S	?	GETTASK+3^%ZTMS1	-direct	5					
1295	Sub 1295	S	?	SUB+1^%ZTMS1	-direct	5					
1307	Sub 1307	S	?	GETTASK+3^%ZTMS1	-direct	5					
1315	Sub 1315	S	?	SUB+1^%ZTMS1	-direct	5					
1390		S	?		-direct	5					
1409		S	pts/3	jobset+4^ZSY	-direct						

I'm getting <RECOMPILE> errors when working on the Cachè system.

If you are getting this error, the routines need to be recompiled on the workstation. There are two different methods you can use to accomplish this.

CHUI

- 1. Get to the programmer prompt on the workstation
- 2. D ^%RCOMPIL
- 3. At the routine selection prompt select %*, hit enter
- 4. Repeat the D ^%RCOMPIL command and select * at the routine selection prompt

GUI

- 1. Right click on the Cache cube and select Explorer
- 2. On the left side of the screen expand VISTA under the Local Databases, select routines
- 3. In the routine selection box enter %*
- 4. From the Edit menu click on Select All
- 5. In the Contents screen on the right, right click, click Advanced/Compile
- 6. Repeat step 3-5 selecting * in the routine selection